Annual Index

Volume 28
1993

Author Index

A

AHMAD, F. *See* Pasha, M.K.
AITZETMÜLLER, K. *See* Tsevegsüren, N.
AKIRA, K., Nakamura, T., Shinohara, Y. and Baba, S., Profiling of Arachidonic Acid Metabolites in Rabbit Platelets by Radio Gas Chromatography, 361
ALBORCH, E. *See* Fornas, E.
ALEXANDER, D.W. *See* Fritsche, K.L.
AMBRUSO, D.R. *See* Silliman, C.C.
AN, S.-H. *See* Hong, C.I.
ANDREWS, V.G. *See* O'Brien, B.C.
ANTOINE, J.-M. *See* Martin, J.-C.
ARSEQUELL, G. *See* Gosalbo, L.
ARTHUR, G. *See* Badiani, K.
AYYAD, N., Cohen, B.I., Mosbach, E.H., Miki, S., Mikami, T., Mikami, Y. and Stenger, R.J., Age, Sex and Source of Hamster Affect Experimental Cholesterol Cholelithiasis, 981

B

BABA, S. *See* Akira, K.
BABIN, F., Sarda, P., Limasset, B., Descomps, B., Rieu, D., Mendy, F. and Crastes de Paulet, A., Nervonic Acid in Red Blood Cell Sphingomyelin in Premature Infants: An Index of Myelin Maturation?, 627
BADIANI, K., Lu, X. and Arthur, G., Effect of Δ^9-Tetrahydrocannabinol and Merthiolate on Acyltransferase Activities in Guinea Pig Liver Microsomes, 299
BAGBY, M.O. *See* Kaneshiro, T.
BALLIANO, G., Grosa, G., Milla, F., Viola, F. and Cattel, L., 3-Carboxy-4-nitrophenyl-dithio-1,1′,2-*tris*norsqualene: A Site-Directed Inactivator of Yeast Oxidosqualene Cyclase, 903
BARBUCH, R. *See* Bard, M.
BARD, M., Lees, N.D., Turi, T., Craft, D., Cofrin, L., Barbuch, R., Koegel, C. and Loper, J.C., Sterol Synthesis and Viability of *erg11* (cytochrome P450 lanosterol demethylase) Mutations in *Saccharomyces cerevisiae* and *Candida albicans*, 963
BARR, H.A. *See* Jones, M.E.
BARRETT, S.M. *See* Dunstan, G.A.
BARROT, M. *See* Gosalbo, L.
BATTERSHILL, M.P. *See* Garson, M.J.
BAUM, M.K. *See* Peck, M.D.
BAYBUTT, R.C., Smith, J.E. and Yeh, Y.-Y., The Effects of Dietary Fish Oil on Alveolar Type II Cell Fatty Acids and Lung Surfactant Phospholipids, 167
BAYON, Y., Croset, M., Chirouze, V., Tayot, J.L. and Lagarde, M., Phospholipid Molecular Species from Human Placenta Lipids, 631
BEATTIE, S.E., Stafford, A.E. and King, Jr., A.D., Reevaluation of the Natural Lipids of *Tilletia controversa* and *Tilletia tritici*, 1041
BECKER, C.C., Rosenquist, A. and Hølmer, G., Regiospecific Analysis of Triacylglycerols Using Allyl Magnesium Bromide, 147
BECKER, T.C. *See* Hallaq, Y.
BEDFORD, D. *See* Huq, L.
BELL, F.P. and St. John, L.C., Action of the New Hypolipidemic Agent Lifibrol (K12.148) on Lipid Homeostasis in Normal Rats: Plasma Lipids, Hepatic Sterologenesis, and the Fate of Injected [^{14}C]Acetate, 1079
BELL J.G., Dick, J.R. and Sargent, J.R., Effect of Diets Rich in Linoleic or α-Linolenic Acid on Phospholipid Fatty Acid Composition and Eicosanoid Production in Atlantic Salmon (*Salmo salar*), 819
BELL, M.V. and Dick, J.R., 1-*O*-Alk-1′-enyl-2-acyl-glycerophosphoethanolamine Content and Molecular Species Composition in Fish Brain, 19
See Wilson, R.
BELURY, M.A., Locniskar, M. and Fischer, S.M., Modulation of Phorbol Ester-Associated Events in Epidermal Cells by Linoleate and Arachidonate, 407
BENVENISTE, J. *See* Korth, R.
See Tsoukatos, D.
BERGE, R.K. *See* Skorve, J.
See Willumsen, N.
BERGQVIST, M.H.J. and Kaufmann, P., A Multivariate Optimization of Triacylglycerol Analysis by High-Performance Liquid Chromatography, 667
BERKOVIC, D. *See* Fleer, E.A.M.
BERTRAM, S. *See* Levy, B.D.
BESSE, T.J. *See* Stone, B.G.
BÉZARD, J. *See* Georges, B.
See Maniongui, C.
BIDAULT, J. *See* Korth, R.
BIERENBAUM, M. *See* Watkins, T.
BLANCHFLOWER, W.J., Walsh, D.M., Kennedy, S. and Kennedy, D.G., A Thermospray Mass Spectrometric Assay for Fe-Induced 4-Hydroxynonenal in Tissues, 261
BLOND, J.P. *See* Georges, B.
See Maniongui, C.
BOISSONNEAULT, G. *See* Chen, L.-C.
BORGSTRÖM, B., Phosphatidylcholine as Substrate for Human Pancreatic Phospholipase A_2. Importance of the Physical State of the Substrate, 371
BOTTA, D. *See* Domingo, N.
BOUGNOUX, P. *See* Martin, J.-C.
BOURDILLON, M.-C. *See* Dusserre, E.
BOURRE, J.M. *See* Dinh, T.K.L.
BRACKHAHN, D. *See* Stark, W.S.
BRANCH, L.B. *See* Kelley, D.S.
BRAUN, J.E.A. and Severson, D.L., Release of Lipoprotein Lipase from Cardiac Myocytes by Low-Molecular Weight Heparin, 59
BRISSOT, P. *See* Cogrel, P.
BRUCE, V.M. *See* Chan, J.K.
BUCHMANN, S.L. *See* Lusby, W.R.
BUDA, Cs. *See* Dey, I.
BURDICK, S., Keelan, M. and Thomson, A.B.R., Different Mechanisms of Uptake of Stearic Acid and Cholesterol into Rabbit Jejunal Brush Border Membrane Vesicles, 1063
BURGOS, C., Zafra, M.F., Castillo, M. and Garcia-Peregrin, E., Effect of Lipid Content of Diet on Cholesterol Content and Cholesterogenic Enzymes of European Eel Liver, 913
BURKOW, I.C. *See* Henderson, R.J.
See Wilson, R.
BUSSIÈRE, L. *See* Gueux, E.

C

CABOCHE, J.-J. *See* Riottot, M.
CALORINI, L., Mugnai, G., Mannini, A. and Ruggieri, S., Effect

of Phosphatidylcholine Structure on the Adenylate Cyclase Activity of a Murine Fibroblast Cell Line, 727
CAMPS, F. *See* Gosalbo, L.
CANTRILL, R.C., Huang, Y.-S., Ells, G.W. and Horrobin, D.F., Comparison of the Metabolism of α-Linolenic Acid and Its Δ6 Desaturation Product, Stearidonic Acid, in Cultured NIH-3T3 Cells, 163
See de Antueno, R.J.
CAO, W.F. *See* Jamdar, S.C.
CARBALLEIRA, N.M. and Emiliano, A., Novel Brominated Phospholipid Fatty Acids from the Caribbean Sponge *Agelas* sp., 763
CARROLL, K.K. *See* Kothapalli, R.
CARROLL, R.T., Muller, J., Grimm, J., Dunham, W.R., Sands, R.H. and Funk, Jr., M.O., Rapid Purification of Rabbit Reticulocyte Lipoxygenase for Electron Paramagnetic Spectroscopy Characterization of the Non-Heme Iron, 241
CASINI, A.F. *See* Goldring, C.
CASSITY, N.A. *See* Fritsche, K.L.
CASTELLANI, L. *See* Zhang, Z.J.
CASTILLO, M. *See* Burgos, C.
CASTRO, J. *See* Guzmán, M.
CATTEL, L. *See* Balliano, G.
CENEDELLA, R.J. and Mitchell, J., Antagonism of [^{3}H]Fatty Acid Incorporation into Vimentin by Sodium Pyruvate: Pitfalls of Protein Acylation, 235
CEPEDA, N. *See* Duque, C.
CESAR, T.B. *See* Maranhão, R.C.
CHAMBERS, A.F. *See* Kothapalli, R.
CHAN, J.K., McDonald, B.E., Gerrard, J.M., Bruce, V.M., Weaver, B.J. and Holub, B.J., Effect of Dietary α-Linolenic Acid and Its Ratio to Linoleic Acid on Platelet Plasma Fatty Acids and Thrombogenesis, 811
CHANUSSOT, F., *See* Domingo, N.
CHAUDRY, A.A. and Dutta-Roy, A.K., Purification and Characterization of a Fatty Acid Binding Protein from Human Prostatic Tissue, 383
CHEN, L.-C., Boissonneault, G., Hayek, M.G. and Chow, C.K., Dietary Fat Effects on Hepatic Lipid Peroxidation and Enzymes of H_2O_2 Metabolism and NADPH Generation, 657
CHEN-BACKLUND, J.-Y. *See* Cohen, L.A.
CHEVANNE, M. *See* Cogrel, P.
CHIROUZE, V. *See* Bayon, Y.
CHOW, C.K. *See* Chen, L.-C.
CHRISTIANSON, J.S. *See* Stark, W.S.
CIAVATTI, M. *See* Dusserre, E.
CILLARD, J. *See* Cogrel, P.
CILLARD, P. *See* Cogrel, P.
CLARK, R.M. and Hundrieser, K.E., A Lack of Correlation Among Fatty Acids Associated with Different Lipid Classes in Human Milk, 157
CLAY, K.L. *See* Silliman, C.C.
COFRIN, L. *See* Bard, M.
COGREL, P., Morel, I., Lescoat, G., Chevanne, M., Brissot, P., Cillard, P. and Cillard, J., The Relationship Between Fatty Acid Peroxidation and α-Tocopherol Consumption in Isolated Normal and Transformed Hepatocytes, 115
COHEN, B.I. *See* Ayyad, N.
COHEN, L.A., Chen-Backlund, J.-Y., Sepkovic, D.W. and Sugie, S., Effect of Varying Proportions of Dietary Menhaden and Corn Oil on Experimental Rat Mammary Tumor Promotion, 449
COMPORTI, M. *See* Goldring, C.
CONVERSE, C.A. *See* Huq, L.
CORNETTE, J.L. *See* Lee, I.
CORTÉS, J.P. *See* Guzmán, M.
COUET, C. *See* Martin, J.-C.
COUTURIER, M. *See* Therond, P.
COVACHO, C. *See* Dusserre, E.
COX, N.R. *See* Pillai, S.R.
CRAFT, D. *See* Bard, M.
CRASTES DE PAULET, A. *See* Babin, F.
CROSET, M. *See* Bayon, Y.
CROTTE, C. *See* Domingo, N.
CSALLANY, A.S. *See* Gallaher, D.D.
CSERHÁTI, T. *See* Szögyi, M.
CUBIZOLLES, C. *See* Gueux, E.
CUNNANE, S.C., Zinc and Red Cell Fatty Acid Composition, 265
Comments on Erythrocyte Membrane Phospholipid Fatty Acid Changes in Cerebral Palsy Patients During Nutritional Rehabilitation, 957
McDonagh, R.J., Narayan, S. and Kyle, D.J., Detection of [U-^{13}C]Eicosapentaenoic Acid in Rat Liver Lipids Using ^{13}C Nuclear Magnetic Resonance Spectroscopy, 273
CURRIE, G. *See* Kallio, H.
CURRIE, G.J. and Kallio, H., Triacylglycerols of Human Milk: Rapid Analysis by Ammonia Negative Ion Tandem Mass Spectrometry, 217

D

DAVIDSON, W.S. *See* McLean, L.R.
DAZZO, F.B. *See* Orgambide, G.G.
DE ANTUENO, R.J., Cantrill, R.C., Huang, Y.-S., Elliot, M. and Horrobin, D.F., Relationship Between Mouse Liver Δ9 Desaturase Activity and Plasma Lipids, 285
DEEMING, D.C. *See* Noble, R.C.
DEL BELLO, B. *See* Goldring, C.
DELOURME, D. *See* Ladevèze, V.
DEMASTER, E.G. *See* Stone, B.G.
DEMELIER, J.-F. *See* Therond, P.
DEMOPOULOS, C.A. *See* Tsoukatos, D.
DESCOMPS, B. *See* Babin, F.
DEVI, K.S. *See* Husain, S.
DEY, I., Szegletes, T., Buda, Cs., Nemcsók, J. and Farkas, T., Fish Erythrocytes as a Tool to Study Temperature-Induced Responses in Plasma Membranes, 743
DI BIASE, A. *See* Salvati, S.
DICK, J.R. *See* Bell, J.G.
See Bell, M.V.
DIERSEN-SCHADE, D. *See* Innis, S.M.
DINH, T.K.L., Bourre, J.M. and Durand, G., Effect of Age and α-Linolenic Acid Deficiency on Δ6 Desaturase Activity and Liver Lipids in Rats, 517
DIOMEDE, L., Piovani, B., Modest, E.J. and Salmona, M., The Effect of Culture Medium Composition on Ether Lipid Cytotoxic Activity, 189
DOBANOVIĆ-SLAVICA, S. *See* Kuhajda, K.
DOMINGO, N., Chanussot, F., Botta, D., Reynier, M.-O., Crotte, C., Hauton, J. and Lafont, H., Modulating Effects of Bile Salt Hydrophobicity on Bile Secretion of the Major Protein of the Bile Lipoprotein Complex, 883
DONOS, A. *See* Tsoukatos, D.
DRAZEN, J.M. *See* Levy, B.D.
DUANE, W.C. *See* Stone, B.G.
DUGAN JR., L. *See* Gonzalez, M.J.
DUNHAM, W.R. *See* Carroll, R.T.
DUNN, J.R., B.S., Weldon, P.J., Howard, R.W. and McDaniel, C.A., Lipids from the Paracloacal Glands of the Chinese Alligator (*Alligator sinensis*), 75
DUNSTAN, G.A., Volkman, J.K. and Barrett, S.M., The Effect of Lyophilization on the Solvent Extraction of Lipid Classes, Fatty Acids and Sterols from the Oyster *Crassostrea gigas*, 937
DUQUE, C., Cepeda, N. and Martínez, A., The Steryl Ester and Phospholipid Fatty Acids of the Sponge *Agelas conifera* from the Colombian Caribbean, 767
DURAND, G. *See* Dinh, T.K.L.
See Maniongui, C.
DURIEUX, J. *See* Shireman, R.B.
DUSSERRE, E., Bourdillon, M.-C., Ciavatti, M., Covacho, C. and Renaud, S., Lipid Biosynthesis in Cultured Arterial Smooth Muscle Cells Is Related to Their Phenotype, 589
DUTTA-ROY, A.K. *See* Chaudry, A.A.
DYER, R. *See* Innis, S.M.

E

EHRINGER, W. *See* Stillwell, W.
EIBL, H. *See* Fleer, E.A.M.
ELAM, M.B. *See* Zhang, Z.J.

AUTHOR INDEX

ELLIOT, M. *See* de Antueno, R.J.
ELLS, G.W. *See* Cantrill, R.C.
EMILIANO, A. *See* Carballeira, N.M.
ENDO, A. *See* Sviridov, D.D.
EPP, M.D. and Pollard, M.R., Fatty Acid Content and Composition of *Oenothera hookeri* Seeds Containing Mutant Plastids, 1005
EVANGELOU, A. *See* Tsoukatos, D.
EVANS, C.D. *See* Stone, B.G.

F

FABRIÁS, G. *See* Gosalbo, L.
FARKAS, T. *See* Dey, I.
FAULKNER, G.T. *See* Oulton, M.
FELDLAUFER, M.F. *See* Lusby, W.R.
FERGUSON, M.W.J. *See* Noble, R.C.
FINOT, P.-A. *See* Guichardant, M.
FISCHER, A. *See* Levy, B.D.
FISCHER, S.M. *See* Belury, M.A.
FLEER, E.A.M., Berkovic, D., Eibl, H. and Unger, C., Investigations on the Cellular Uptake of Hexadecylphosphocholine, 731
FLETCHER, M.A. *See* Peck, M.D.
FORNAS, E., Reneau-Piqueras, J., Fortea, A., Mayordomo, F. and Alborch, E., Cholesterol and 25-Hydroxycholesterol Retention in Specimens of Liver and Aorta Prepared for Electron Microscopy. I. Standard Fixation Methods and Metabolism of the Labeled Sterols, 923
Cholesterol and 25-Hydroxycholesterol Retention in Specimens of Liver and Aorta Prepared for Electron Microscopy. II. Effect of Filipin, Osmium, Digitonin and Saponin, 929
FORTEA, A. *See* Fornas, E.
FRITSCHE, K.L., Alexander, D.W., Cassity, N.A. and Huang, S-C., Maternally-Supplied Fish Oil Alters Piglet Immune Cell Fatty Acid Profile and Eicosanoid Production, 677
FUJIMAGARI, M. *See* Ishima, Y.
FUJIMOTO, K. *See* Miyazawa, T.
See Suzuki, T.
FUKAYAMA, M. *See* Natomi, H.
FUKUZAWA, K., Seko, T., Minami, K. and Terao, J., Dynamics of Iron-Ascorbate-Induced Lipid Peroxidation in Charged and Uncharged Phospholipid Vesicles, 497
FUNGWE, T.V. *See* Zhang, Z.J.
FUNK, J.R., M.O. *See* Carroll, R.T.

G

GAETTI, E. *See* Salvioli, G.
GAGE, D.A. *See* Orgambide, G.G.
GALLAHER, D.D., Csallany, A.S., Shoeman, D.W. and Olson, J.M., Diabetes Increases Excretion of Urinary Malonaldehyde Conjugates in Rats, 663
GALLON, A.A. and Pryor, W.A., The Identification of the Allylic Nitrite and Nitro Derivatives of Methyl Linoleate and Methyl Linolenate by Negative Chemical Ionization Mass Spectroscopy, 125
GAPOR, A. *See* Watkins, T.
GARAMSZEGI, N. *See* Kiss, Z.
GARCIA-PEREGRIN, E. *See* Burgos, C.
See Iglesias, J.
GARDNER, H.W., Simpson, T.D. and Hamberg, M., Transformation of Fatty Acid Hydroperoxides by Alkali and Characterization of Products, 487
See Simpson, T.D.
GARSON, M.J., Zimmermann, M.P., Hoberg, M., Larsen, R.L., Battershill, C.N. and Murphy, P.T., Isolation of Brominated Long-Chain Fatty Acids from the Phospholipids of the Tropical Marine Sponge *Amphimedon terpenensis*, 1011
GEBHARDT, R., Multiple Inhibitory Effects of Garlic Extracts on Cholesterol Biosynthesis in Hepatocytes, 613
GEORGES, B., Blond, J.P., Maniongui, C. and Bézard, J., Effect of Simvastatin on Desaturase Activities in Liver from Lean and Obese Zucker Rats, 63
GERRARD, J.M. *See* Chan, J.K.
GERWICK, W.H. *See* Proteau, P.J.
GLADU, P.K. *See* Patterson, G.W.
See Tsitsa-Tzardis, E.
GLATZ, B.A. *See* Lee, I.
GOLDRING, C., Casini, A.F., Maellaro, E., Del Bello, B. and Comporti, M., Determination of 4-Hydroxynonenal by High-Performance Liquid Chromatography with Electrochemical Detection, 141
GONZALEZ, M.J., Schemmel, R.A., Dugan, Jr., L., Gray, J.I. and Welsch, C.W., Dietary Fish Oil Inhibits Human Breast Carcinoma Growth: A Function of Increased Lipid Peroxidation, 827
GONZALEZ-PACANOWSKA, D. *See* Iglesias, J.
GOSALBO, L., Barrot, M., Fabriás, G., Arsequell, G. and Camps, F., Synthesis of Deuterated Cyclopropane Fatty Esters Structurally Related to Palmitic and Myristic Acids, 1125
GOSSER, D. *See* Kates, M.
GRAY, J.I. *See* Gonzalez, M.J.
GRIMM, J. *See* Carroll, R.T.
GRONOWITZ, S., Klingstedt, T., Svensson, L. and Hansson, U., On the Syntheses of Branched Saturated Fatty Acids, 889
See Stamatov, S.D.
See Svensson, L.
GROSA, G. *See* Balliano, G.
GROSCOLAS, R. *See* Leray, C.
GUENOT, L. *See* Javouhey-Donzel, A.
GUEUX, E., Cubizolles, C., Bussière, L., Mazur, A. and Rayssiguier, Y., Oxidative Modification of Triglyceride-Rich Lipoproteins in Hypertriglyceridemic Rats Following Magnesium Deficiency, 573
GUICHARDANT, M., Traitler, H., Spielmann, D., Sprecher, H. and Finot, P.-A., Stearidonic Acid, an Inhibitor of the 5-Lipoxygenase Pathway. A Comparison with Timnodonic and Dihomogammalinolenic Acid, 321
GUTHRIE, N. *See* Kothapalli, R.
GUZMÁN, M., Cortés, J.P. and Castro, J., Effects of Lovastatin on Hepatic Fatty Acid Metabolism, 1087

H

HAAS, M.J. *See* Joerger, R.D.
HAGAMAN, K.A. *See* McLean, L.R.
HAINES, T.H. *See* Kates, M.
HAJDU, J. *See* Vogler, W.R.
HALL, I.H. *See* Izydore, R.A.
HALLAQ, Y., Becker, T.C., Manno, C.S. and Laposata, M., Use of Acetyl Chloride/Methanol for Assumed Selective Methylation of Plasma Nonesterified Fatty Acids Results in Significant Methylation of Esterified Fatty Acids, 355
HAMAZAKI, T. *See* Taki, H.
HAMBERG, M. *See* Gardner, H.W.
HAMMER, H.M. *See* Huq, L.
HAMMOND, E.G. *See* Lee, I.
HANSSON, U. *See* Gronowitz, S.
See Svensson, L.
HARPER, M.E., Patrick, J., Kramer, J.K.G and Wolynetz, M.S., Erythrocyte Membrane Phospholipid Fatty Acid Changes in Cerebral Palsy Patients During Nutritional Rehabilitation-A Response, 959
HARRIS, W.S. *See* Phelps, S.
HARRISON, D. *See* Tsitsa-Tzardis, E.
HAUTON, J., *See* Domingo, N.
HAYEK, M.G. *See* Chen, L.-C.
HAYES, K.C. *See* Trautwein, E.A.
HAYNES, B. *See* Ramsammy, L.S.
HE, J.L. *See* Nie, Y.
HEIMBERG, M. *See* Zhang, Z.J.
HENDERSON, R.J., Burkow, I.C. and Millar, R.M., Hydrolysis of Fish Oils Containing Polymers of Triacylglycerols by Pancreatic Lipase *in vitro*, 313
Millar, R.-M., Sargent, J.R. and Jostensen, J.-P., *Trans*-Monoenoic and Polyunsaturated Fatty Acids in Phospholipids of a *Vibrio* Species of Bacterium in Relation to Growth Conditions, 389
See Wilson, R.

HEXEBERG, S. *See* Willumsen, N.
HIRANO, K. *See* Satouchi, K.
HIRATA, M.H. *See* Maranhão, R.C.
HOBERG, M. *See* Garson, M.J.
HODGE, J., Sanders, K. and Sinclair, A.J., Differential Utilization of Eicosapentaenoic Acid and Docosahexaenoic Acid in Human Plasma, 525
HØLMER, G. *See* Becker, C.C.
HOLMQUIST, M., Norin, M. and Hult, K., The Role of Arginines in Stabilizing the Active Open-Lid Conformation of *Rhizomucor miehei* Lipase, 721
HOLUB, B.J. *See* Chan, J.K.
HONG, C.I., An, S.-H., Nechaev, A., Kirisits, A.J., Vig, R. and West, C.R., Synthesis and Antitumor Activity of 1-β-D-Arabinofuranosylcytosine Conjugates of Optical Isomers of Ether and Thioether Lipids, 1021
HORNSTRA, G. *See* Vossen, R.C.R.M.
HORROBIN, D.F. *See* Cantrill, R.C.
See de Antueno, R.J.
HORROCKS, L.A. *See* Murphy, E.J.
HOWARD, R.W. *See* Dunn, Jr., B.S.
HRANISAVLJEVIĆ, J. *See* Kuhajda, K.
HSIA, S.L. *See* Nie, Y.
HUANG, C., Li, S., Wang, Z.-q. and Lin, H.-n., Dependence of the Bilayer Phase Transition Temperatures on the Structural Parameters of Phosphatidylcholines, 365
HUANG, S.-C. *See* Fritsche, K.L.
HUANG, Y.-S. *See* Cantrill, R.C.
See de Antueno, R.J.
HUANG, Z.-H. *See* Orgambide, G.G.
HUET, A. *See* Riottot, M.
HULT, K. *See* Holmquist, M.
HUNDRIESER, K.E. *See* Clark, R.M.
HUQ, L., McLachlan, T., Hammer, H.M., Bedford, D., Packard, C.J., Shepherd, J. and Converse, C.A., An Increased Incidence of Apolipoprotein E2/E2 and E4/E4 in Retinitis Pigmentosa, 995
HUSAIN, S. and Devi, K.S., Separation and Identification of Isomeric Conjugated Fatty Acids by High-Performance Liquid Chromatography with Photodiode Array Detection, 1037

I

IACONO, J.M. *See* Kelley, D.S.
IGLESIAS, J., Gonzalez-Paconowska, D., Marco, C. and Garcia-Peregrin, E., Cholesterol Synthesis and Esterification in Isolated Enterocytes: Regulation by Cholesterol and Cholestyramine Feeding, 549
INNIS, S.M., Dyer, R., Wadsworth, L., Quinlan, P. and Diersen-Schade, D., Dietary Saturated, Monounsaturated, n-6 and n-3 Fatty Acids, and Cholesterol Influence Platelet Fatty Acids in the Exclusively Formula-Fed Piglet, 645
ISHIDA, B.Y. *See* Nishina, P.M.
ISHIDATE, K., Matsuo, R. and Nakazawa, Y., CDPcholine:1,2-Diacylglycerol Cholinephosphotransferase from Rat Liver Microsomes. I. Solubilization and Characterization of the Partially Purified Enzyme and the Possible Existence of an Endogenous Inhibitor, 89
ISHIGURO, K. *See* Mori, H.
ISHIMA, Y., Fujimagari, M., Masuzawa, Y. and Waku, K., Inositol 1,4,5-Trisphosphate Accumulation in Brain of Lithium-Treated Rats, 577
ISRAEL, E. *See* Levy, B.D.
ITABASHI, Y. *See* Lehner, R.
ITOH, Y. *See* Terao, J.
IWAMORI, M. *See* Natomi, H.
IZYDORE, R.A., Wong, O.T. and Hall, I.H., Hypolipidemic Activity of 6-Alkoxycarbonyl-3-aryl-1,3,5-triazabicyclo[3.1.0]hexane-2,4-diones and 2-Alkoxycarbonyl-5-aryl-1,3,5-triazine-4,6(1H,5H)-diones in Rodents, 223

J

JAMDAR, S.C. and Cao, W.F., Adipose Glycerolipid Formation: Effect of Nutritional and Hormonal States, 607
JANIGAN, D.T. *See* Oulton, M.
JAVOUHEY-DONZEL, A., Guenot, L., Maupoil, V., Rochette, L. and Rocquelin, G., Rat Vitamin E Status and Heart Lipid Peroxidation: Effect of Dietary α-Linolenic Acid and Marine n-3 Fatty Acids, 651
JENSKI, L.J. *See* Stillwell, W.
JOERGER, R.D. and Haas, M.J., Overexpression of a *Rhizopus delemar* Lipase Gene in *Escherichia coli*, 81
JOHNSON, C.A. *See* Silliman, C.C.
JONES, M.E., Barr, H.A. and Nicholas, T.E., Turnover of Cholesterol and Dipalmitoyl Phosphatidylcholine in Surfactant of Adult Rat Lung, 173
JOSEPOVITZ, C. *See* Ramsammy, L.S.
JOSTENSEN, J.-P. *See* Henderson, R.J.
JURKOWITZ-ALEXANDER, M. *See* Murphy, E.J.

K

KALLIO, H. and Currie, G., Analysis of Low Erucic Acid Turnip Rapeseed Oil (*Brassica campestris*) by Negative Ion Chemical Ionization Tandem Mass Spectrometry. A Method Giving Information on the Fatty Acid Composition in Positions *sn*-2 and *sn*-1/3 of Triacylglycerols, 207
See Currie, G.J.
KALOYANIDES, G.J. *See* Ramsammy, L.S.
KAMIDO, H., Kuksis, A., Marai, L. and Myher, J.J., Identification of Core Aldehydes Among *in vitro* Peroxidation Products of Cholesteryl Esters, 331
KAMISAKA, Y., Yokochi, T., Nakahara, T. and Suzuki, O., Characterization of the Diacylglycerol Acyltransferase Activity in the Membrane Fraction from a Fungus, 583
KANDRAČ J. *See* Kuhajda, K.
KANESHIRO, T., Vesonder, R.F., Peterson, R.E. and Bagby, M.O., 2-Hydroxyhexadecanoic and 8,9,13-Trihydroxydocosanoic Acid Accumulation by Yeasts Treated with Fumonisin B_1, 397
KARST, F. *See* Ladevèze, V.
KATES, M., Syz, J.-Y., Gosser, D. and Haines, T.H., pH-Dissociation Characteristics of Cardiolipin and Its 2′-Deoxy Analogue, 877
KATO, K. *See* Yamauchi, R.
KATOH, N., Modulation by Sphingosine of Substrate Phosphorylation by Protein Kinase C in Bovine Mammary Gland, 867
KAUFMANN, P. *See* Bergqvist, M.H.J.
KAYDEN, H.J. *See* Pillai, S.R.
See Traber, M.G.
KEELAN, M. *See* Burdick, S.
KEHRER, J.P. *See* Palamanda, J.R.
KELLEY, D.S., Nelson, G.J., Love, J.E., Branch, L.B., Taylor, P.C., Schmidt, P.C., Mackey, B.E. and Iacono, J.M., Dietary α-Linolenic Acid Alters Tissue Fatty Acid Composition, but Not Blood Lipids, Lipoproteins or Coagulation Status in Humans, 533
KENNEDY, D.G. *See* Blanchflower, W.J.
KENNEDY, S. *See* Blanchflower, W.J.
KHALLOU, J. *See* Riottot, M.
KHAN, M.U. and Williams, J.P., Microwave-Mediated Methanolysis of Lipids and Activation of Thin-Layer Chromatographic Plates, 953
KIKUGAWA, K. *See* Kosugi, H.
KIM, S.K. and Nawar, W.W., Parameters Influencing Cholesterol Oxidation, 917
KIMLER, B.F. *See* Storm, H.M.
KING, J.R., A.D., *See* Beattie, S.E.
KINSELLA, J.E. *See* Surette, M.E.
KIRISITS, A.J. *See* Hong, C.I.
KISHI, T. *See* Takahashi, T.
KISS, Z. and Garamszegi, N., Protein Kinase C-Dependent Stimulation of Phospholipase D in Phospholipase C-Treated Fibroblasts, 479
KLINGSTEDT, T. *See* Gronowitz, S.
See Svensson, L.
KOBA, K., Wakamatsu, K., Obata, K. and Sugano, M., Effects of Dietary Proteins on Linoleic Acid Desaturation and Membrane Fluidity in Rat Liver Microsomes, 457
KOBAYASHI, M. *See* Taki, H.

KOEGEL, C. *See* Bard, M.
KOHAR, I., Suarna, C. and Southwell-Keely, P.T., Oxidations of the α-Tocopherol Model Compound 2,2,5,7,8-Pentamethyl-6-chromanol. Formation of 2,2,7,8-Tetramethylchroman-5,6-dione, 1015
KOHNO, Y. *See* Mukai, K.
KOJIMA, T. *See* Kosugi, H.
KOO, S.I. *See* Wang, S.
KORTH, R., Bidault, J., Palmantier, R., Benveniste, J. and Ninio, E., Human Platelets Release a Paf-Acether: Acetylhydrolase Similar to That in Plasma, 193
KOSENKOV, E.I. *See* Podrez, E.A.
KOSUGI, H., Kojima, T. and Kikugawa, K., Characteristics of the Thiobarbituric Acid Reactivity of Human Urine as a Possible Consequence of Lipid Peroxidation, 337
KOSYKH, V.A. *See* Podrez, E.A.
KOTHAPALLI, R., Guthrie, N., Chambers, A.F. and Carroll, K.K., Farnesylamine: An Inhibitor of Farnesylation and Growth of *Ras*-Transformed Cells, 969
KRAMER, J.K.G. *See* Harper, M.E.
KRESSE, H. *See* Robers, M.
KUHAJDA, K., Kandrač, J., Dobanović-Slavica, S., Hranislavjević, J. and Miljković, D., Separation of Bile Acid Methyl Esters by High-Performance Liquid Chromatography, 863
KUKSIS, A. *See* Kamido, H.
See Lehner, R.
KUO, J.F. *See* Vogler, W.R.
KUYPERS, F.A. *See* Nishina, P.M.
KWITEROVICH, JR., P.O. *See* Miller, M.
KYLE, D.J. *See* Cunnane, S.C.

L

LACHMANSINGH, A. *See* van der Heijdt, L.M.
LADEVÈZE, V., Marcireau, C., Delourme, D. and Karst, F., General Resistance to Sterol Biosynthesis Inhibitors in *Saccharomyces cerevisiae*, 907
LAFONT, H. *See* Domingo, N.
LAGARDE, M. *See* Bayon, Y.
LAKEEV, Y.V. *See* Podrez, E.A.
LANSON, M. *See* Martin, J.-C.
LAPOSATA, M. *See* Hallaq, Y.
LARSEN, R.M. *See* Garson, M.J.
LEE, I., Hammond, E.G., Cornette, J.L. and Glatz, B.A., Triacylglycerol Assembly from Binary Mixtures of Fatty Acids by *Apiotrichum curvatum*, 1055
LEES, N.D. *See* Bard, M.
LEHNER, R., Kuksis, A. and Itabashi, Y., Stereospecificity of Monoacylglycerol and Diacylglycerol Acyltransferases from Rat Intestine as Determined by Chiral Phase High-Performance Liquid Chromatography, 29
LEMONNIER, F. *See* Therond, P.
LENZ, P. *See* Watkins, T.
LERAY, C., Raclot, T. and Groscolas, R., Positional Distribution of n-3 Fatty Acids in Triacylglycerols from Rat Adipose Tissue During Fish Oil Feeding, 279
LESCOAT, G. *See* Cogrel, P.
LEVANDER, O. *See* Nelson, G.J.
LEVY, B.D., Bertram, S., Tai, H.H., Israel, E., Fischer, A., Drazen, J.M. and Serhan, C.N., Agonist-Induced Lipoxin A_4 Generation: Detection by a Novel Lipoxin A_4-ELISA, 1047
LI, S. *See* Huang, C.
LIANG, J. *See* Trautwein, E.A.
LIE KEN JIE, M.S.F. and Wong, K.P., Synthesis of Phenyl Substituted C_{18} Furanoid Fatty Esters, 43
and Wong, K.P., Synthesis of Trisubstituted C_{18} Pyrrole Fatty Ester Derivatives, 161
LIMASSET, B. *See* Babin, F.
LIN, H.-N. *See* Huang, C.
LIN, T.-N. *See* Stark, W.S.
LIVANT, P.D. *See* Patterson, G.W.
LOCNISKAR, M. *See* Belury, M.A.
LODDENKÖTTER, B. *See* Robers, M.
LOPER, J.C. *See* Bard, M.
LORENZ, R.L. *See* Pietsch, A.
LOVE, J.E. *See* Kelley, D.S.
LU, G.-P. *See* Surette, M.E.
LU, X. *See* Badiani, K.
LU, Y. *See* Peck, M.D.
LUGLI, R. *See* Salvioli, G.
LUSBY, W.R., Buchmann, S.L. and Feldlaufer, M.F., Pollen Sterols from Three Species of Sonoran Cacti, 469
See Patterson, G.W.
LUTHRIA, D.L. and Sprecher, H., 2-Alkenyl-4,4-dimethyloxazolines as Derivatives for the Structural Elucidation of Isomeric Unsaturated Fatty Acids, 561
Synthesis of Ethyl Arachidonate-19,19,20,20-d_4 and Ethyl Dihomo-γ-linolenate-19,19,20,20-d_4, 853
LUTTON, C. *See* Riottot, M.

M

MACDONALD, J. *See* Oulton, M.
MACKEY, B.E. *See* Kelley, D.S.
MAEDA, K. *See* Ohki, T.
MAELLARO, E. *See* Goldring, C.
MAGISTRELLI, A. *See* Trulla, L.L.
MALVEZZI CAMPEGGI, L. *See* Salvati, S.
MAMBETISAEVA, E.T. *See* Podrez, E.A.
MANIONGUI, C., Blond, J.P., Ulmann, L., Durand, G., Poisson, J.P. and Bézard, J., Age-Related Changes in Δ6 and Δ5 Desaturase Activities in Rat Liver Microsomes, 291
See Georges, B.
MANNINI, A. *See* Calorini, L.
MANNO, C.S. *See* Hallaq, Y.
MANSOOR, M.A. *See* Skorve, J.
MANTERO-ATIENZA, E. *See* Peck, M.D.
MARAI, L. *See* Kamido, H.
MARANHÃO, R.C., Cesar, T.B., Pedroso-Mariani, S.R., Hirata, M.H. and Mesquita, C.H., Metabolic Behavior in Rats of a Nonprotein Microemulsion Resembling Low Density Lipoprotein, 691
MARCIREAU, C., *See* Ladevèze, V.
MARCO, C. *See* Iglesias, J.
MARTIN, J.-C., Bougnoux, P., Antoine, J.-M., Lanson, M. and Couet, C., Triacylglycerol Structure of Human Colostrum and Mature Milk, 637
MARTÍNEZ, A. *See* Duque, C.
MARX, M.H. *See* Surles, J.R.
MASUZAWA, Y. *See* Ishima, Y.
MATSUO, R. *See* Ishidate, K.
MATSUURA, F. *See* Satouchi, K.
MAUPOIL, V. *See* Javouhey-Donzel, A.
MAYORDOMO, F. *See* Fornas, E.
MAZUR, A. *See* Gueux, E.
MCCARTNEY, R. *See* Noble, R.C.
See Shand, J.H.
MCDANIEL, C.A. *See* Dunn, Jr., B.S.
MCDONAGH, R.J. *See* Cunnane, S.C.
MCDONALD, B.E. *See* Chan, J.K.
MCLACHLAN, T. *See* Huq, L.
MCLEAN, L.R., Hagaman, K.A. and Davidson, W.S., Role of Lipid Structure in the Activation of Phospholipase A_2 by Peroxidized Phospholipids, 505
MENDY, F. *See* Babin, F.
MESQUITA, C.H. *See* Maranhão, R.C.
MICHELSEN, P. *See* Valeur, A.
MIETTINEN, T.A. *See* Podrez, E.A.
MIGUEZ-BURBANO, M.J. *See* Peck, M.D.
MIKAMI, T. *See* Ayyad, N.
MIKAMI, Y. *See* Ayyad, N.
MIKI, S. *See* Ayyad, N.
MILJKOVIĆ, D. *See* Kuhajda, K.
MILLA, P. *See* Balliano, G.
MILLAR, R.M. *See* Henderson, R.J.
MILLER, M., Motevalli, M., Westphal, D. and Kwiterovich, Jr., P.O., Incorporation of Oleic Acid and Eicosapentaenoic Acid into Glycerolipids of Cultured Normal Human Fibroblasts, 1
MINAMI, K. *See* Fukuzawa, K.

MITCHELL, J. *See* Cenedella, R.J.
MIYAKE, N. *See* Yamauchi, R.
MIYAZAWA, T., Suzuki, T. and Fujimoto, K., Age-Dependent Accumulation of Phosphatidylcholine Hydroperoxide in the Brain and Liver of the Rat, 789
See Suzuki, T.
MODEST, E.J. *See* Diomede, L.
MONSMA, C.C. and Ney, D.M., Interrelationship of Stearic Acid Content and Triacylglycerol Composition of Lard, Beef Tallow and Cocoa Butter in Rats, 539
MOREL, I. *See* Cogrel, P.
MORI, H., Ishiguro, K. and Okuyama, H., Hypertension in Rats Does Not Potentiate Hypercholesterolemia and Aortic Cholesterol Deposition Induced by a Hypercholesterolemic Diet, 109
MORI, K. *See* Takahashi, T.
MORIMOTO, H. *See* Mukai, K.
MORRIS, V.C. *See* Nelson, G.J.
MORRIS-NATSCHKE, S. *See* Surles, J.R.
MOSBACH, E.H. *See* Ayyad, N.
MOSCHIDIS, M.C. *See* Tsoukatos, D.
MOTEVALLI, M. *See* Miller, M.
MOZAFFAR, Z. and Weete, J.D., Purification and Properties of an Extracellular Lipase from *Pythium ultimum*, 377
MUGNAI, G. *See* Calorini, L.
MUKAI, K., Morimoto, H., Okauchi, Y. and Nagaoka, S.-i., Kinetic Study of Reactions Between Tocopheroxyl Radicals and Fatty Acids, 753
Sawada, K., Kohno, Y. and Terao, J., Kinetic Study of the Prooxidant Effect of Tocopherol. Hydrogen Abstraction from Lipid Hydroperoxides by Tocopheroxyls in Solution, 747
MULLER, J. *See* Carroll, R.T.
MURIANA, F.J.G. *See* Vázquez, C.M.
MURPHY, E.J. and Horrocks, L.A., Composition of the Phospholipids and Their Fatty Acids in the ROC-1 Oligodendroglial Cell Line, 67
Stephens, R., Jurkowitz-Alexander, M. and Horrocks, L.A., Acidic Hydrolysis of Plasmalogens Followed by High-Performance Liquid Chromatography, 565
MURPHY, P.T. *See* Garson, M.J.
MYHER, J.J. *See* Kamido, H.

N

NAGAI, Y. *See* Natomi, H.
NAGAO, A. *See* Terao, J.
NAGAOKA, S.-i. *See* Mukai, K.
NAKAGAWA, Y., Application of Paired-Ion High-Performance Liquid Chromatography to the Separation of Molecular Species of Phosphatidylinositol, 1033
NAKAHARA, T. *See* Kamisaka, Y.
NAKAMURA, N. *See* Taki, H.
NAKAMURA, T. *See* Akira, K.
NAKAZAWA, Y. *See* Ishidate, K.
NARAYAN, S. *See* Cunnane, S.C.
NATOMI, H., Saitoh, T., Sugano, K., Iwamori, M., Fukayama, M. and Nagai, Y., Systematic Analysis of Glycosphingolipids in the Human Gastrointestinal Tract: Enrichment of Sulfatides with Hydroxylated Longer-Chain Fatty Acids in the Gastric and Duodenal Mucosa, 737
NAWAR, W.W. *See* Kim, S.K.
NECHAEV, A. *See* Hong, C.I.
NELSON, G.J., Morris, V.C., Schmidt, P.C. and Levander, O., The Urinary Excretion of Thiobarbituric Acid Reactive Substances and Malondialdehyde by Normal Adult Males After Consuming a Diet Containing Salmon, 757
See Kelley, D.S.
NEMCSÓK, J. *See* Dey, I.
NEY, D.M. *See* Monsma, C.C.
NICHOLAS, T.E. *See* Jones, M.E.
NIE, Y., He, J.L. and Hsia, S.L., A Micro Enzymic Method for Determination of Choline-Containing Phospholipids in Serum and High Density Lipoproteins, 949
NINIO, E. *See* Korth, R.
NISHIMURA, K.Y. *See* Tang, A.B.
NISHINA, P.M., Wang, J., Toyofuku, W., Kuypers, F.A., Ishida, B.Y. and Paigen, B., Atherosclerosis and Plasma and Liver Lipids in Nine Inbred Strains of Mice, 599
NOBLE, R.C., Deeming, D.C., Ferguson, M.W.J. and McCartney, R., The Effect of Incubation Temperature on Yolk Lipid Parameters During Embryonic Development of the Alligator (*Alligator mississippiensis*), 135
See Shand, J.H.
NORIN, M. *See* Holmquist, M.
NORTON, S. *See* Storm, H.M.

O

OBATA, K. *See* Koba, K.
O'BRIEN, B.C. and Andrews, V.G., Influence of Dietary Egg and Soybean Phospholipids and Triacylglycerols on Human Serum Lipoproteins, 7
ODHAM, G. *See* Valeur, A.
OH, S.Y. *See* Storm, H.M.
OHKI, T., Maeda, K., Sakakibara, J., Suzuki, E. and Yamanaka, N., Structural Analysis of Oxidation Products of Urofuran Acid by Hypochlorous Acid, 35
OKAMOTO, T. *See* Takahashi, T.
OKAUCHI, Y. *See* Mukai, K.
OKUYAMA, H. *See* Mori, H.
OLIVIER, P. *See* Riottot, M.
OLIVIERI, A. *See* Salvati, S.
OLSON, A.C. *See* Vogler, W.R.
OLSON, J.M. *See* Gallaher, D.D.
ORGAMBIDE, G.G., Huang, Z.-H., Gage, D.A. and Dazzo, F.B., Phospholipid and Fatty Acid Compositions of *Rhizobium leguminosarum* biovar *trifolii* ANU843 in Relation to Flavone-Activated pSym *nod* Gene Expression, 975
OTSUKA, M. *See* Suzuki, T.
OULTON, M., MacDonald, J., Janigan, D.T. and Faulkner, G.T., Mouse Alveolar Surfactant: Characterization of Subtypes Prepared by Differential Centrifugation, 715

P

PACKARD, C.J. *See* Huq, L.
PAIGEN, B. *See* Nishina, P.M.
PALAMANDA, J.R. and Kehrer, J.P., Involvement of Vitamin E and Protein Thiols in the Inhibition of Microsomal Lipid Peroxidation by Glutathione, 427
PALMANTIER, R. *See* Korth, R.
PANIGRAHI, K. and Sampugna, J., Effects of *trans* Fatty Acids on Lipid Accumulation in 3T3-L1 Cells, 1069
PANINI, R. *See* Salvioli, G.
PARISH, E.J. *See* Patterson, G.W.
PARQUET, M. *See* Riottot, M.
PASHA, M.K. and Ahmad, F., Synthesis of Oxygenated Fatty Acid Esters from Santalbic Acid Ester, 1027
PATON, B.C. *See* Poulos, A.
PATRICK, J. *See* Harper, M.E.
PATTERSON, G.W., Gladu, P.K., Wikfors, G.H., Parish, E.J., Livant, P.D. and Lusby, W.R., Identification of Two Novel Dihydroxysterols from *Pavlova*, 771
See Tsitsa-Tzardis, E.
PAVLOV, M.Y. *See* Sviridov, D.D.
PECK, M.D., Mantero-Atienza, E., Miguez-Burbano, M.J., Lu, Y., Fletcher, M.A., Shor-Posner, G. and Baum, M.K., The Esterified Plasma Fatty Acid Profile Is Altered in Early HIV-1 Infection, 593
PEDROSO-MARIANI, S.R. *See* Maranhão, R.C.
PETERSON, R.E. *See* Kaneshiro, T.
PHELPS, S. and Harris, W.S., Garlic Supplementation and Lipoprotein Oxidation Susceptibility, 475
PHINNEY, S.D. *See* Tang, A.B.
PIANTADOSI, C. *See* Surles, J.R.
PIETSCH, A. and Lorenz, R.L., Rapid Separation of the Major Phospholipid Classes on a Single Aminopropyl Cartridge, 945

PILLAI, S.R., Traber, M.G., Steiss, J.E. and Kayden, H.J., Depletion of Adipose Tissue and Peripheral Nerve α-Tocopherol in Adult Dogs, 1095
Traber, M.G., Steiss, J.E., Kayden, H.J. and Cox, N.R., α-Tocopherol Concentrations of the Nervous System and Selected Tissues of Adult Dogs Fed Three Levels of Vitamin E, 1101
See Traber, M.G.
PIOVANI, B. *See* Diomede, L.
PODREZ, E.A., Kosykh, V.A., Lakeev, Y.V., Kosenkov, E.I., Mambetisaeva, E.T., Repin, V.S., Smirnov, V.N. and Miettinen, T.A., Bile Acid and Very Low Density Lipoprotein Production by Cultured Hepatocytes from Hypo- or Hyperresponsive Rabbits Fed Cholesterol, 709
POISSON, J.P. *See* Maniongui, C.
POLLARD, M.R. *See* Epp, M.D.
POULOS, A., Usher, S. and Paton, B.C., Fatty Acid Synthesis from [2-^{14}C]Acetate in Normal and Peroxisome-Deficient (Zellweger) Fibroblasts, 97
PRADELLI, J.M. *See* Salvioli, G.
PROTEAU, P.J. and Gerwick, W.H., Divinyl Ethers and Hydroxy Fatty Acids from Three Species of *Laminaria* (Brown Algae), 783
PRYOR, W.A. *See* Gallon, A.A.

Q

QUINLAN, P. *See* Innis, S.M.
QUINN, D.M. *See* Shin, H.-C.

R

RACLOT, T. *See* Leray, C.
RAKOFF, H., Preparation of Methyl 5,11,14,17-Eicosatetraenoate-8,8,9,9-d_4, 47
Synthesis of Methyl 11,14,17-Eicosatrienoate-3,3,4,4,8,8,9,9-d_8, 231
RAMSAMMY, L.S., Haynes, B., Josepovitz, C. and Kaloyanides, G.J., Mechanism of Decreased Arachidonic Acid in the Renal Cortex of Rats with Diabetes Mellitus, 433
RAO, C.V., Zang, E. and Reddy, B.S., Effect of High Fat Corn Oil, Olive Oil and Fish Oil on Phospholipid Fatty Acid Composition in Male F344 Rats, 441
RAYNOR, R. *See* Vogler, W.R.
RAYSSIGUIER, Y. *See* Gueux, E.
REDDY, B.S. *See* Rao, C.V.
RENAUD, S. *See* Dusserre, E.
RENAU-PIQUERAS, J. *See* Fornas, E.
REPIN, V.S. *See* Podrez, E.A.
See Sviridov, D.D.
REYNIER, M.-O. *See* Domingo, N.
RIEU, D. *See* Babin, F.
RIOTTOT, M., Olivier, P., Huet, A., Caboche, J.-J., Parquet, M., Khallou, J. and Lutton, C., Hypolipidemic Effects of β-Cyclodextrin in the Hamster and in the Genetically Hypercholesterolemic Rico Rat, 181
ROBERS, M., Loddenkötter, B., Kresse, H. and Spener, F., Effect of Clofibric Acid on the Turnover of the Fatty Acid-Binding Protein Identified in Cultured Endothelial Cells from Bovine Aorta, 483
ROCHETTE, L. *See* Javouhey-Donzel, A.
ROCQUELIN, G. *See* Javouhey-Donzel, A.
ROSENQUIST, A. *See* Becker, C.C.
RUGGIERI, S. *See* Calorini, L.
RUIZ-GUTIERREZ, V. *See* Vázquez, C.M.
RUSTAN, A.C. *See* Willumsen, N.

S

SAITOH, T. *See* Natomi, H.
SAKAGUCHI, M. *See* Satouchi, K.
SAKAKIBARA, J. *See* Ohki, T.
SALMONA, M. *See* Diomede, L.
See Trulla, L.L.
SALVATI, S., Malvezzi Campeggi, L., Sorcini, M., Olivieri, A. and Di Biase, A., Effect of Propylthiouracil-Induced Hypothyroidism on Membranes of Adult Rat Brain, 1075
SALVIOLI, G., Gaetti, E., Panini, R., Lugli, R., and Pradelli, J.M., Different Resistance of Mammalian Red Blood Cells to Hemolysis by Bile Salts, 999
SAMPUGNA, J. *See* Panigrahi, K.
SANDERS, K. *See* Hodge, J.
SANDS, R.H. *See* Carroll, R.T.
SARDA, P. *See* Babin, F.
SARGENT, J.R. *See* Bell, J.G.
See Henderson, R.J.
See Wilson, R.
SATOUCHI, K., Hirano, K., Sakaguchi, M., Takehara, H. and Matsuura, F., Phospholipids from the Free-Living Nematode *Caenorhabditis elegans*, 837
SAWADA, K. *See* Mukai, K.
SAYO, H., *See* Takahashi, T.
SCHEMMEL, R.A. *See* Gonzalez, M.J.
SCHMIDT, P.C. *See* Kelley, D.S.
See Nelson, G.J.
SEKO, T. *See* Fukuzawa, K.
SEPKOVIC, D.W. *See* Cohen, L.A.
SERHAN, C.N. *See* Levy, B.D.
SEVERSON, D.L. *See* Braun, J.E.A.
SHAND, J.H., West, D.W., McCartney, R.J., Noble, R.C. and Speake, B.K., The Esterification of Cholesterol in the Yolk Sac Membrane of the Chick Embryo, 621
SHEPHERD, J. *See* Huq, I.
SHIN, H.-C. and Quinn, D.M., A Simple and Efficient Synthesis of Fatty Thioacids, 73
SHINOHARA, Y. *See* Akira, K.
SHIREMAN, R.B. and Durieux, J., Microplate Methods for Determination of Serum Cholesterol, High Density Lipoprotein Cholesterol, Triglyceride and Apolipoproteins, 151
SHOEMAN, D.W. *See* Gallaher, D.D.
SHOJI, M. *See* Vogler, W.R.
SHOR-POSNER, G. *See* Peck, M.D.
SILLIMAN, C.C., Johnson, C.A., Clay, K.L., Thurman, G.W. and Ambruso, D.R., Compounds Biologically Similar to Platelet Activating Factor Are Present in Stored Blood Components, 415
SIMPSON, T.D. and Gardner, H.W., Conversion of 13(*S*)-Hydroperoxy-9(*Z*),11(*E*)-octadecadienoic Acid to the Corresponding Hydroxy Fatty Acid by KOH: A Kinetic Study, 325
See Gardner, H.W.
SINCLAIR, A.J. *See* Hodge, J.
SKORVE, J., Svardal, A.M., Mansoor, M.A. and Berge, R.K., Modulation of Phosphatidylcholine Biosynthesis by Peroxisome Proliferating Fatty Acid Analogues, 795
See Willumsen, N.
SMIRNOV, V.N. *See* Podrez, E.A.
SMITH, J.E. *See* Baybutt, R.C.
SORCINI, M. *See* Salvati, S.
SOUTHWELL-KEELY, P.T. *See* Kohar, I.
SPEAKE, B.K. *See* Shand, J.H.
SPENER, F. *See* Robers, M.
SPIELMANN, D. *See* Guichardant, M.
SPRECHER, H. *See* Guichardant, M.
See Luthria, D.L.
ST. JOHN, L.C. *See* Bell, F.P.
STAFFORD, A.E. *See* Beattie, S.E.
STAMATOV, S.D. and Gronowitz, S., *O*-Alkyl Diol *O*-, *S*- and *Se*-Phosphoroamidates of DL-α-Tocopherol and Their Dimethylaminoalkyl Derivatives as Diester and Triester Models of Phospholipids, 351
STARK, W.S., Lin, T.-N., Brackhahn, D., Christianson, J.S. and Sun, G.Y., Fatty Acids in the Lipids of *Drosophila* Heads: Effects of Visual Mutants, Carotenoid Deprivation and Dietary Fatty Acids, 345
Lin, T.-N., Brackhahn, D., Christianson, J.S. and Sun, G.Y., Phospholipids in *Drosophila* Heads: Effects of Visual Mutants and Phototransduction Manipulations, 23
STEISS, J.E. *See* Pillai, S.R.
See Traber, M.G.

STENGER, R.J. *See* Ayyad, N.
STEPHENS, R. *See* Murphy, E.J.
STILLWELL, W., Ehringer, W. and Jenski, L.J., Docosahexaenoic Acid Increases Permeability of Lipid Vesicles and Tumor Cells, 103
STONE, B.G., Besse, T.J., Duane, W.C., Evans, C.D. and DeMaster, E.G., Effect of Regulating Cholesterol Biosynthesis on Breath Isoprene Excretion in Men, 705
STORM, H.M., Oh, S.Y., Kimler, B.F. and Norton, S., Radioprotection of Mice by Dietary Squalene, 555
STRUCK, M. *See* Watkins, T.
SUARNA, C. *See* Kohar, I.
SUGANO, K. *See* Natomi, H.
SUGANO, M. *See* Koba, K.
SUGIE, S. *See* Cohen, L.A.
SUN, G.Y. *See* Stark, W.S.
SURETTE, M.E., Whelan, J., Lu, G.-P. and Kinsella, J.E., Synthesis of Arachidonic Acid Metabolites by Syrian Hamster Platelets and Peritoneal Cells, 1131
SURLES, J.R., Morris-Natschke, S., Marx, M.H. and Piantadosi, C., Multigram Synthesis of 1-Alkylamido Phospholipids, 55
SUZUKI, E. *See* Ohki, T.
SUZUKI, O. *See* Kamisaka, Y.
SUZUKI, T., Miyazawa, T., Fujimoto, K., Otsuka, M. and Tsutsumi, M., Age-Related Accumulation of Phosphatidylcholine Hydroperoxide in Cultured Human Diploid Cells and Its Prevention by α-Tocopherol, 775
See Miyazawa, T.
See Takagi, T.
SVARDAL, A.M. *See* Skorve, J.
SVENSSON, L., Hansson, U., Gronowitz, S. and Klingstedt, T., The Relationship Between the Structure of Monoalkyl Branched Saturated Fatty Acids and Some Physical Properties, 899
See Gronowitz, S.
SVIRIDOV, D.D., Endo, A., Pavlov, M.Y. and Repin, V.S., Time Response of Cholesterol Synthesis Inhibition by Compactin-Related Compounds. *In vitro* Quantitation of the "Escape Phenomenon", 569
SYZ, J.-Y. *See* Kates, M.
SZEGLETES, T. *See* Dey, I.
SZÖGYI, M., Cserháti, T. and Tölgyesi, F., Effect of Some Potassium Selective Crown Ethers on the Permeability and Structure of a Phospholipid Membrane, 847

T

TACCONI, M.T. *See* Trulla, L.L.
TAI, H.H. *See* Levy, B.D.
TAKAGI, T. and Suzuki, T., Enantiomeric Resolution of Diacylglycerol Derivatives by High-Performance Liquid Chromatography on a Chiral Stationary Phase at Low Temperatures, 251
TAKAHASHI, T., Okamoto, T., Mori, K., Sayo, H. and Kishi, T., Distribution of Ubiquinone and Ubiquinol Homologues in Rat Tissues and Subcellular Fractions, 803
TAKEBE, K. *See* Tamasawa, N.
TAKEHARA, H. *See* Satouchi, K.
TAKI, H., Nakamura, N., Hamazaki, T. and Kobayashi, M., Intravenous Injection of Tridihomo-γ-linolenoyl-glycerol into Mice and Its Effects on Delayed-Type Hypersensitivity, 873
TAMASAWA, A. *See* Tamasawa, N.
TAMASAWA, N., Tamasawa, A. and Takebe, K., Higher Levels of Plasma Cholesterol Sulfate in Patients with Liver Cirrhosis and Hypercholesterolemia, 833
TANG, A.B., Nishimura, K.Y. and Phinney, S.D., Preferential Reduction in Adipose Tissue α-Linolenic Acid (18:3ω3) During Very Low Calorie Dieting Despite Supplementation with 18:3ω3, 987
TAYLOR, P.C. *See* Kelley, D.S.
TAYOT, J.L. *See* Bayon, Y.
TERAO, J., Nagao, A., Yuki, H. and Itoh, Y., Reduction of Fatty Acid Hydroperoxides by Human Parotid Saliva, 121
See Fukuzawa, K.
See Mukai, K.
THEROND, P., Couturier, M., Demelier, J.-F. and Lemonnier, F., Simultaneous Determination of the Main Molecular Species of Soybean Phosphatidylcholine or Phosphatidylethanolamine and Their Corresponding Hydroperoxides Obtained by Lipoxygenase Treatment, 245
THOMSON, A.B.R. *See* Burdick, S.
THURMAN, G.W. *See* Silliman, C.C.
TOCHER, D.R., Elongation Predominates over Desaturation in the Metabolism of 18:3n-3 and 20:5n-3 in Turbot (*Scophthalmus maximus*) Brain Astroglial Cells in Primary Culture, 267
TÖLGYESI, F. *See* Szögyi, M.
TOMEO, A. *See* Watkins, T.
TOYOFUKU, W. *See* Nishina, P.M.
TRABER, M. G., Pillai, S.R., Kayden, H.J. and Steiss, J.E., Vitamin E Deficiency in Dogs Does not Alter Preferential Incorporation of *RRR*-α-Tocopherol Compared with *all rac*-α-Tocopherol into Plasma, 1107
See Pillai, S.R.
TRAITLER, H. *See* Guichardant, M.
TRAUTWEIN, E.A., Liang, J. and Hayes, K.C., Cholesterol Gallstone Induction in Hamsters Reflects Strain Differences in Plasma Lipoproteins and Bile Acid Profiles, 305
TRULLA, L.L., Magistrelli, A., Salmona, M. and Tacconi, M.T., Effect of Cell Density on Cytotoxicity of Ether Lipid Analogues in Variants of B16 Murine Melanoma, 403
TSELEPIS, A.D. *See* Tsoukatos, D.
TSEVEGSÜREN, N. and Aitzetmüller, K., γ-Linolenic Acid in *Anemone* spp. Seed Lipids, 841
TSITSA-TZARDIS, E., Patterson, G.W., Wikfors, G.H., Gladu, P.K. and Harrison, D., Sterols of *Chaetoceros* and *Skeletonema*, 465
TSOUKATOS, D., Demopoulos, C.A., Tselepis, A.D., Moschidis, M.C., Donos, A., Evangelou, A. and Benveniste, J., Inhibition by Cardiolipins of Platelet-Activating Factor-Induced Rabbit Platelet Activation, 1119
TSUTSUMI, M. *See* Suzuki, T.
TURI, T. *See* Bard, M.

U

UENO, Y. *See* Yamauchi, R.
ULMANN, L. *See* Maniongui, C.
UNGER, C. *See* Fleer, E.A.M.
USHER, S. *See* Poulos, A.

V

VALEUR, A., Michelsen, P. and Odham, G., On-Line Straight-Phase Liquid Chromatography/Plasmaspray Tandem Mass Spectrometry of Glycerolipids, 255
VAN DAM-MIERAS, M.C.E. *See* Vossen, R.C.R.M.
VAN DER HEIJDT, L.M., van der Lecq, F., Lachmansingh, A., Versluis, K., van der Kerk-van Hoof, A., Veldink, G.A. and Vliegenthart, J.F.G., Formation of Octadecadienoate Dimers By Soybean Lipoxygenases, 779
VAN DER KERK-VAN HOOF, A. *See* van der Heijdt, L.M.
VAN DER LECQ, F. *See* van der Heijdt, L.M.
VÁZQUEZ, C.M., Muriana, F.J.G. and Ruiz-Gutierrez, V., Changes in Fatty Acid Desaturation in Hepatic and Intestinal Tissues Induced by Intestinal Resection, 471
VELDINK, G.A. *See* van der Heijdt, L.M.
VERSLUIS, K. *See* van der Heijdt, L.M.
VESONDER, R.F. *See* Kaneshiro, T.
VIG, R. *See* Hong, C.I.
VIOLA, F. *See* Balliano, G.
VLIEGENTHART, J.F.G. *See* van der Heijdt, L.M.
VOGLER, W.R., Olson, A.C., Hajdu, J., Shoji, M., Raynor, R. and Kuo, J.F., Structure-Function Relationships of Alkyl-Lysophospholipid Analogs in Selective Antitumor Activity, 511
VOLKMAN, J.K. *See* Dunstan, G.A.
VOSSEN, R.C.R.M., van Dam-Mieras, M.C.E., Hornstra, G. and Zwaal, R.F.A., Continous Monitoring of Lipid Peroxidation by Measuring Conjugated Diene Formation in an Aqueous Liposome Suspension, 857

W

WADSWORTH, L. *See* Innis, S.M.
WAKAMATSU, K. *See* Koba, K.
WAKU, K. *See* Ishima, Y.
WALSH, D.M. *See* Blanchflower, W.J.
WANG, J. *See* Nishina, P.M.
WANG, S. and Koo, S.I., Plasma Clearance and Hepatic Utilization of Stearic, Myristic and Linoleic Acids Introduced *via* Chylomicrons in Rats, 697
WANG, Z.-Q. *See* Huang, C.
WATKINS, T., Lenz, P., Gapor, A., Struck, M., Tomeo, A. and Bierenbaum, M., γ-Tocotrienol as a Hypocholesterolemic and Antioxidant Agent in Rats Fed Atherogenic Diets, 1113
WEAVER, B.J., *See* Chan, J.K.
WEETE, J.D. *See* Mozaffar, Z.
WELDON, P.J. *See* Dunn, Jr., B.S.
WELSCH, C.W. *See* Gonzalez, M.J.
WEST, C.R. *See* Hong, C.I.
WEST, D.W. *See* Shand, J.H.
WESTPHAL, D. *See* Miller, M.
WHELAN, J. *See* Surette, M.E.
WIKFORS, G.H. *See* Patterson, G.W.
See Tsitsa-Tzardis, E.
WILCOX, H.G. *See* Zhang, Z.J.
WILLIAMS, J.P. *See* Khan, M.U.
WILLUMSEN, N., Skorve, J., Hexeberg, S., Rustan, A.C. and Berge, R.K., The Hypotriglyceridemic Effect of Eicosapentaenoic Acid in Rats Is Reflected in Increased Mitochondrial Fatty Acid Oxidation Followed by Diminished Lipogenesis, 683
WILSON, R. and Bell, M.V., Molecular Species Composition of Glycerophospholipids from White Matter of Human Brain, 13
Henderson, R.J., Burkow, I.C. and Sargent, J.R., The Enrichment of n-3 Polyunsaturated Fatty Acids Using Aminopropyl Solid Phase Extraction Columns, 51
WOLYNETZ, M.S. *See* Harper, M.E.
WONG, K.P. *See* Lie Ken Jie, M.S.F.
WONG, O.T. *See* Izydore, R.A.

Y

YAMANAKA, N. *See* Ohki, T.
YAMAUCHI, R., Miyake, N., Kato, K. and Ueno, Y., Reaction of α-Tocopherol with Alkyl and Alkylperoxyl Radicals of Methyl Linoleate, 201
YEH, Y.Y. *See* Baybutt, R.C.
YOKOCHI, T. *See* Kamisaka, Y.
YUKI, H. *See* Terao, J.

Z

ZAFRA, M.F. *See* Burgos, C.
ZANG, E. *See* Rao, C.V.
ZHANG, Z.J., Wilcox, H.G., Castellani, L., Fungwe, T.V., Elam, M.B. and Heimberg, M., Concentration-Dependent Effects of Eicosapentaenoic Acid on Very Low Density Lipoprotein Secretion by the Isolated Perfused Rat Liver, 419
ZIMMERMANN, M.P. *See* Garson, M.J.
ZWAAL, R.F.A. *See* Vossen, R.C.R.M.

Subject Index

A

ACAT, *See* acyl coenzyme A:cholesterol acyltransferase
ACETATE(S)
  as substrate for fatty acid synthesis, 97
  metabolism in rat, effect of lifibrol, 1079
  of paracloacal glands of alligator, 75
ACETYL CHLORIDE
  methylation of fatty acids, pitfalls, 355
ACETYL COENZYME A CARBOXYLASE
  activity in hepatocytes, effect of lovastatin, 1087
ACETYLHYDROLASE
  activity in human platelets, 193
ACYLATION OF
  lysophospholipids, 299
  vimentin, effect of pyruvate on, 235
ACYL COENZYME A:CHOLESTEROL ACYLTRANSFERASE
  activity in chick embryo, 621
  activity in enterocytes, effect of cholestyramine, 549
  hepatic, 109
ACYL COENZYME A OXIDASE
  activity in renal cortex, and diabetes mellitus, 433
ACYL COENZYME A SYNTHETASE
  activity in renal cortex, and diabetes mellitus, 433
ACYLTRANSFERASE
  activity in fungal membrane, 583
  activity in rat liver, and hypotriglyceridemia, 683
  activity in renal cortex, and diabetes mellitus, 433
  from rat intestine, activity of, 29
  inhibitors of, 299
  lecithin:cholesterol, of rat plasma, 109
  lysophosphatidylcholine:acyl-CoA, activity in microsomes, 299
ADENOSINE TRIPHOSPHATE:CITRATE LYASE
  activity in rat liver, and hypotriglyceridemia, 683
ADENYLATE CYCLASE
  activity, effect of phospholipid structure, 727
ADIPOCYTE
differentiation, and *trans* fatty acids, 1069
ADIPOSE TISSUE OF
  dog, γ-tocopherol contents, 1095, 1101, 1107
  human, fatty acid composition, 987
  rat, fatty acid composition, 279
AGE
  and desaturase activity in liver microsomes, 291, 517
  and hydroperoxide accumulation, in diploid cells, 775
  effect on lipid peroxidation, 337
  effect on lipids of *Drosophila*, 345
  effect on phospholipid hydroperoxide accumulation, 789
ALCOHOLS
  of paracloacal glands of alligator, 75
ALDEHYDES
  cholesteryl ester peroxidation products, 331
ALKENYLACYL GLYCEROPHOSPHOETHANOLAMINE
  contents in *Drosophila*, 23
  contents in fish brain, 19
  contents in human brain white matter, 13
  contents in nematode *Caenorhabditis elegans*, 837
  fatty acid composition of, 13, 19
ALKENYLACYL GLYCEROPHOSPHOLIPIDS
  acidic hydrolysis of, HPLC, 565
  contents in nematode *Caenorhabditis elegans*, 837
  of placenta, fatty acid composition, 631
2-ALKENYL-4,4-DIMETHYLOXAZOLINES
  of isomeric unsaturated fatty acids, 561
ALKYLACYL GLYCEROPHOSPHOLIPIDS
  contents in nematode *Caenorhabditis elegans*, 837
  of placenta, fatty acid composition, 631
1-ALKYLAMIDO PHOSPHOLIPIDS
  synthesis of, 55
ALKYL LYSOPHOSPHOLIPIDS
  analogs of, antitumor activity, 511
ALKYLPEROXYL RADICALS
  reaction with α-tocopherol, 201
ALKYL RADICALS
  reaction with α-tocopherol, 201
ALLYLIC NITRITES
  analysis by HPLC and MS, 125
ALLYL MAGNESIUM BROMIDE
  triacylglycerol determination by, 147
ALVEOLAR
  surfactant, lipid turnover in, 173
  type II cells, responsiveness to dietary fish oil, 167
AMINES
  inhibition NIH 3T3 cell growth, 969
AMINO ACIDS
  synthesis in cultured epithelial cells, 235
AMINOPROPYL COLUMNS
  solid phase, extraction of PUFA, 51
  separation of phospholipids, 945
ANTIOXIDANT(S)
  activity of garlic, on lipoproteins, 475
  agents, 1113
  effect of tocopherols on, 747, 753
ANTITUMOR ACTIVITY OF
  1-β-D-arabinofuranosylcytosine conjugates, 1021
  alkyl lysophospholipid analogs, 511
APOLIPOPROTEIN A-I
  of human serum, effect of diet on, 7
APOLIPOPROTEIN B
  of human serum, effect of diet on, 7
APOLIPOPROTEIN E
  in retinitis pigmentosa, 995
APOLIPOPROTEINS
  contents in human serum, 7
  determination by microplate method, 151
  modulation by retinitis pigmentosa, 995
ARACHIDONIC ACID
  biosynthesis in obese rat, 63
  biosynthesis in rat tissue, and diet, 441
  contents in alligator embryo, 135
  contents in myelin and rat synaptosomes, 1075
  contents in rat tissues, 109
  effect on epidermal cells, 407
  effect on lipoxin A_4 formation, 1047
  ethyl ester, deuterated, 853
  hydroperoxide of, 121
  metabolism, effect of HIV-1 infection, 593
  metabolism in turbot cells, 267
  metabolites, in rabbit platelets, 361
  metabolites, synthesis in hamster, 1131
  oxidation, 331
ARGININE
  structural modifications in lipases, 721
ASCORBIC ACID
  effect on lipid peroxidation, in liposomes, 497
ASPIRIN
  effect on lipoxin A_4 formation, 1047
ASTHMA
  and lipoxin A_4 formation, 1047
ATHEROGENESIS
  diet-induced, 109
  effect of γ-tocotrienol, 1113
ATHEROSCLEROSIS
  and eicosanoid metabolism, 1131
  and plasma and liver lipids, in mice, 599
  lipid differentiation associated with, 589
AUTORADIOGRAPHY
  of ^{32}P-labeled phospholipids, 23
AUTOXIDATION OF
  fatty acids, MS analysis, 125
  polyunsaturated lipids, role of tocopherol, 201

B

BILAYER
phospholipase A_2 treatment of, 371
of saturated phosphatidylcholines, properties, 365
BILE ACID(S)
biosynthesis and turover, in hamster, 181
contents in hamster, 305
excretion, effect of β-cyclodextrin, in hamster, 181
metabolism in rabbit, 1063
methyl esters of, separation by HPLC, 863
production by rabbit hepatocytes, 709
profiles, effect of dietary cholesterol, 305
secretion, by perfused liver, 885
BILE CHOLESTEROL
contents in hamster, 305, 981
BILE SALTS
effect on calcium binding protein synthesis, 883
hemolytic effect on red blood cells, 999
BIOSYNTHESIS OF
arachidonic acid in obese rat, 63
cholesterol, 223, 549, 569, 589, 705, 969
cholic and chenodeoxycholic acids, in hamster, 181
dolichol in *ras*-transformed NIH 3T3 cells, 969
fatty acids in seeds, effect of plastome mutations, 1005
sterols in yeast, 963
BRAIN
cells, fatty acid desaturation and elongation, 267
glycerophospholipids, 13, 1075
membranes, and hypothyroidism, 1075
phospholipid hydroperoxide accumulation in, 789
phospholipids of lithium-treated rat, 577
BRANCHED FATTY ACIDS
monoalkyl, physical properties, 899
occurrence in sponge lipids, 767
synthesis of, 889
BROMINATED FATTY ACID
isolation from sponges, 1011
BUTYL HYDROPEROXIDE
effect on lipid peroxidation assay, 337

C

CALCIUM BINDING PROTEIN
anionic polypeptide fraction of, biosynthesis, 883
CALCIUM IONOPHORE
effect on hamster macrophages, 1131
CANCER, *See also* tumor
human breast, effect of dietary fish oil, 827
prostatic, and fatty acid binding protein, 383
3-CARBOXY-4-METHYL-5-PROPYL-2-FURANPROPIONIC ACID
oxidation products, 35
CARDIAC MYOCYTES
lipoprotein lipase of, 59
CARDIOLIPIN
activation of rabbit platelets by, 1119
contents in *Rhizobium leguminosarum*, and gene expression, 975
dissociation characteristics of, 877
CARNITINE PALMITOYLTRANSFERASE
activity in rat liver, and hypotriglyceridemia, 683
CELLS GROWN IN CULTURE
arterial smooth muscle, phenotype differences, 589
bovine lens epithelial, protein acylation, 235
brain astroglial, fatty acid desaturation and elongation, 267
endothelial, effect of clofibric acid, 483
endothelial, fatty acid binding protein of, 483
epidermal, effect of fatty acids, 407
human diploid, lipid hydroperoxide accumulation, 775
human fibroblasts, 1
leukemic, HL60 and K562, effect of ether lipids, 189
L1210 lymphoid leukemia, effect of antitumor lipids, 1021
mouse fibroblasts 3T3-L1, effect of *trans* fatty acids, 1069
murine fibroblasts, adenylate cyclase activity, 727
murine melanoma, effect of ether lipids, 403
NIH-3T3, metabolism of α-linolenic acid, 163
ROC-1 oligodendroglial, 67
CELL TRANSFORMATION
and lipid changes, 589
CEREBRAL PALSY
and phospholipid fatty acid changes, 957, 959
CHEMILUMINESCENCE
chromatography, of lipid hydroperoxides, 775
phospholipid hydroperoxide determination, 245, 789
CHOLESTEROGENIC ENZYMES
effect of diet on, 913
CHOLESTEROL
analysis by electron microscopy, 923, 929
analysis by microplate method, 151
aortic, deposition diet-induced, 109
biosynthesis, effect of garlic extract, 613
biosynthesis in enterocytes, effect of cholestyramine, 549
biosynthesis in fibroblasts, effect of mevinolin and monacolin X, 569
biosynthesis in *ras*-transformed NIH 3T3 cells, 969
biosynthesis in rodents, effect of hypolipidemic drug, 223
biosynthesis in smooth muscle cells, and atherosclerosis, 589
biosynthesis, regulation in men, and isoprene excretion, 705
dietary, *See* dietary supplements, cholesterol
effect on mammary tumor, 449
esterification, in yolk sac membranes, 621
formation during cholesteryl ester peroxidation, 31
metabolism in fish, 913
oxidation, *in vitro*, 917
turnover in lung surfactant, 173
uptake into jejunal brush border membrane, 1063
CHOLESTEROL CHOLELITHIASIS
in hamster, 981
CHOLESTEROL CONTENTS IN
alligator developing embryo, 135
cultured leukemic cells, 189
eel liver, 913
gallbladder bile, 305
hamster tissues, 981
HDL, 151
human lipoproteins, 7
human serum, dietary effects, 7, 525
hypertriglyceridemic rat plasma, 573
lipoproteins, of hamster, 305
microsomal membranes, 457
NIH-3T3 cells, 163
phytoplankton, *Chaetoceros* and *Skeletonema* sp., 465
plasma and liver, and atherosclerosis, 599
rat plasma, and hypercholesterolemic diet, 109, 1113
rat liver, in hypotriglyceridemia, 683
CHOLESTEROL GALLSTONES
and cholesterol intake, 305
in hamster, 981
CHOLESTEROL SULFATE
and liver cirrhosis, 833
in plasma, and hypercholesterolemia, 833
CHOLESTERYL ESTER(S)
and Zellweger's syndrome, 97
biosynthesis in chick embryo, 621
contents in alligator developing embryo, 135
contents in hamster liver, 305
contents in human lipoproteins, and diet, 7, 525
contents in peroxisome-deficient fibroblasts, 97
fatty acid composition, 621
of human milk, fatty acid composition, 157
peroxidation, product identification, 331
CHOLESTYRAMINE
effect on cholesterol synthesis in enterocytes, 549
CHOLINEPHOSPHOTRANSFERASE
inhibitors, 89
partial purification from liver microsomes, 89
CHYLOMICRONS
and fatty acid clearance in rat plasma, 697

CLOFIBRIC ACID
effect on endothelial cells, 483
COAGULATION
effect of dietary α-linolenic acid, 533
COENZYME Q
biosynthesis in *ras*-transformed NIH 3T3 cells, 969
COLUMN CHROMATOGRAPHY
for lipase purification, 377
of fatty acid binding protein, 383
of thiobarbituric acid reactive substances, 337
separation of sterols by, 465
CREATINE PHOSPHATE:CREATINE PHOSPHOKINASE
role in platelet aggregation, 1119
CROWN ETHERS
modulation of membrane structure and permeability, 847
CTP:PHOSPHOCHOLINE CYTIDYLYLTRANSFERASE
activity, modulation by fatty acid analogues, 795
CULTURED CELLS, *See* cells grown in culture
β-CYCLODEXTRIN
hypolipidemic effects, in hamster and rat, 181
CYCLOPROPENE FATTY ESTERS
synthesis of, 1125
CYTOCHROME P-450
effect on lanosterol demethylase mutations, 963

D

DESATURASE
products, in NIH-3T3 cells, 163
substrate for, synthesis of, 1125
DESATURASE ACTIVITY IN
epidermal cells, 407
intestinal tissue, 471
mouse liver, 285
rat liver, and obesity, 63
rat liver microsomes, and aging, 291
rat liver microsomes, dietary effects on, 457
renal cortex, and diabetes mellitus, 433
turbot brain astroglial cells, 267
DEUTERIUM
fatty acid labeling, 853
DIABETES
and lipoprotein lipase activity in myocytes, 55
effect on arachidonic acid synthesis, 433
effect on lipids of adipose microsomes, 607
stimulation of malondialdehyde excretion, 663
DIACYLGLYCEROL
as substrate for cholinephosphotransferase, 89
derivatives, low temperature HPLC of, 251
DIACYLGLYCEROL ACYLTRANSFERASE
fungal, activity and substrate specificity, 583
DIENES
formation, and lipid peroxidation by, 857
DIET
atherogenic, effect of γ-tocotrienol, 1113
carotenoid-deprived, effect on *Drosophila* lipids, 345
effect on cholesterol metabolism, 913
effect on human serum lipoproteins, 7
effect on lipids of adipose microsomes, 607
gallstone-inducing, in hamster, 305
high fat, effect on phospholipid fatty acids, 441
high fat, effect on plasma and liver lipids, 599
hypercholesterolemic, effect on aortic cholesterol, 109
lithogenic, and cholelithiasis in hamster, 981
magnesium-deficient, effect on lipoproteins, 573
rich in linoleic or α-linolenic acid, and eicosanoid production, 819
salmon, effect on malondialdehyde excretion, 757
very low calorie, and adipocyte fatty acids, 987
vitamin E-deficient, effect on γ-tocopherol in dog, 1095, 1101, 1107
zinc-deficient, effect on red cell fatty acids, 265
DIETARY FATS
and colon cancer, 441
effect on cholesterol metabolism, 913
effect on lipid peroxidation, in mouse liver, 657
effect on mammary tumor, 449
effect on phospholipid fatty acids, 441
effect on triglycerides and fatty acids, 539
DIETARY FATTY ACID(S)
and Δ6 desaturase activity, 517
and *Drosophila* lipids, 345
effect on blood lipids, 525
effect on cholesterol circulation, 449
effect on EFA metabolism, 987
effect on lipoproteins, 7
effect on mammary tumor, 449
effect on piglet platelets, 645
effect on triacylglycerol contents, 285
eicosapentaenoic, and Δ9 desaturase activity, 285
eicosapentaenoic, and fatty acid oxidation, 683
α-linolenic, and heart lipid peroxidation, 651
α-linolenic, and tissue lipids, 533, 811
n-3, effect on Δ9 desaturase activity, 285
n-3, effect on heart lipid peroxidation, 651
ω3, effect on adipose tissue, 987
stearic, effect on triacylglycerol fatty acids, 539
DIETARY SUPPLEMENT(S)
cholesterol, and gallstone formation, 305
cholesterol, effect on LDL and bile acids, 709
cholesterol, effect on piglet platelets, 645
casein, effect on rat microsomal membranes, 457
corn oil, effect on mammary tumor, 449
egg lipids, effect on human lipoproteins, 7
fish oil, *See* fish oil
formula, effect on piglet platelets, 645
garlic, and lipoprotein oxidation, 475
menhaden oil, and mammary tumor, 449
protein, effects on microsomal membranes, 457
soybean lipids, effect on human lipoproteins, 7
squalene, and radioprotection, 555
γ-tocotrienol, effect on plasma cholestrol, 1113
DIGITONIN
effect on sterol analysis, 929
DIHOMOGAMMALINOLENIC ACID
as inhibitor of 5-lipoxygenase pathway, 321
desaturation by rat liver microsomes, 291
DIHYDROXYSTEROLS
structure identification, 771
N,N-DIMETHYLPHOSPHATIDYLETHANOLAMINE
contents in *Rhizobium leguminosarum*, and gene expression, 975
DINITROPHENYLHYDRAZONE
derivatives, lipid oxidation product analysis by, 331
DOCOSAHEXAENOIC ACID
content in alligator developing embryo, 135
effect on lipid vesicles, 103
membrane permeability changes induced by, 103
metabolism in human plasma, 525
metabolism in turbot brain cells, 267
toxicity against tumor cells, 103
DOCOSAPENTAENOIC ACID
contents in alligator developing embryo, 135
DOLICHOL
biosynthesis in *ras*-transformed cells, 969

E

EFA, *See* essential fatty acids
EICOSAPENTAENOIC ACID
contents in blood, effect of dietary a-linolenic acid, 533
contents in fish phospholipids, 19
detection in rat liver lipids, 273
dietary, effect on fatty acid oxidation, 683
effect on VLDL secretion by perfused liver, 419
incorporation into glycerolipids, 1
EICOSAPENTAENOIC ACID METABOLISM IN
cultured fibroblasts, 1
human plasma, 525
mouse liver, 285

piglets, effect of maternal diet, 677
salmon, 819
turbot cells, 267
EICOSATETRAENOIC ACID
deuterated, ethyl ester, 853
methyl ester, synthesis of, 47
production in piglets, effect of maternal diet, 677
production in salmon, 819
EICOSATRIENOIC ACID
as inhibitor of 5-lipoxygenase pathway, 321
contents in myelin and rat synaptosomes, 1075
desaturation by rat liver microsomes, 291
deuterated, ethyl ester, 853
methyl ester, synthesis of, 231
production in piglet, effect of maternal diet, 677
ELECTRON MICROSCOPY
analysis of sterols by, 923, 929
ELISA, *See* enzyme-linked immunosorbent assay
EMULSION
lipid, metabolic study in rat, 691
ENZYME ASSAYS FOR
CDPcholine:1,2-diacylglycerol cholinephosphotransferase, 89
CDPethanolamine:1,2-diacylglycerol ethanolaminephosphotransferase, 89
choline phospholipids, 949
lipoxin A_4, 1047
ENZYME-LINKED IMMUNOSORBENT ASSAY
for lipoxin A_4 formation, in asthmatic patients, 1047
EPA, *See* eicosapentaenoic acid
ERGOSTEROL
biosynthesis in *Saccharomyces cerevisiae*, 907
synthesis, effect of cytochrome P450, in yeast, 963
ERYTHROCYTE(S)
fish, membrane study, 743
hemolysis by bile salts, 999
lipids, fatty acid composition, 291
ESSENTIAL FATTY ACIDS
supplementation with, effect on adipose tissue, 987
ESTERS
of oxygenated fatty acids, 1027
of santalbic acid, 1027
ETHANOLAMINEPHOSPHOTRANSFERASE
partial purification from liver microsomes, 89
ETHANOLAMINE PLASMALOGEN, *See* alkenylacyl glycerophosphoethanolamine
ETHER LIPID(S)
analogues, effect on platelets, 1119
analogues, presence in blood, 415
cytotoxic activity, 189
cytotoxicity against murine melanoma, 403
isolation from brown algae, 783
lysophospholipid analogs, antitumor activity, 511
uptake by tumor cells, 731

F

FARNESYLAMINE
effect on *ras*-transformed NIH 3T3 cells, 969
FARNESYL:PROTEIN TRANSFERASE
activity in *ras*-transformed NIH 3T3 cells, 969
FAST ATOM BOMBARDMENT TANDEM MASS SPECTROMETRY
of fatty acids from bacteria *Rhizobium leguminosarum*, 975
FATTY ACID BINDING PROTEIN
from human prostatic tissue, purification, 383
in endothelial cells, effect of clofibrate, 483
FATTY ACID COMPOSITION OF
adipose tissue, 279, 987
alligator developing embryo, 135
alveolar surfactant, 715
alveolar type II cell phospholipids and triacylglycerols, 167
bacteria *Rhizobium leguminosarum*, 975
brain alkenylacyl glycerophosphoethanolamine, 13, 19
brain glycerophospholipids, 13, 789
Drosophila lipids, 345
fibroblasts, peroxisome-deficient, 97
fish erythrocytes, 743
fish lipids, 19
fish oils, 51, 313
HDL phospholipids, 525
human brain phospholipids, 13
human milk, 157, 217, 637
human placenta phospholipids, 631
human plasma lipids, 525
human platelets and plasma, 811
human tissues, dietary effects, 533, 811
liver lipids, 267
lung surfactant phospholipids, 167
microsomal membranes, 457
microsomal phospholipids, and obesity, 63
nematode *Caenorhabditis elegans*, 837
oyster *Crassostrea gigas*, 937
phospholipids 7, 13, 19, 67, 645, 767, 819, 1033
platelet phospholipids, in piglet, 645
rat myelin and synaptosomes, and hypothyroidism, 1075
red cells, in zinc deficiency, 265
ROC-1 oligodendroglial cell phospholipids, 67
salmon phospholipids, 819
seeds, effect of plastid mutations, 1005
serum, effect on mammary tumor, 449
soybean phosphatidylinositol, 255, 1033
sponge phospholipids and steryl esters, 767
triacylglycerols, 147, 207, 217, 313
turnip rapeseed oil triacylglycerols, 207
FATTY ACID(S)
analogues, modulation of phospholipid synthesis, 795
analogues, synthesis of, 1125
as modulators of tumor promoter, 407
as substrates for fatty acid binding protein, 383
as substrates for triglyceride biosynthesis, 1055
branched, in sponge lipids, 767
branched, monoalkyl, physical properties, 899
branched, synthesis, 889
brominated, isolation from sponges, 763, 1011
clearance in rat plasma, 697
conjugated, HPLC separation, 1037
derivatives, for MS analysis, 561
desaturation and elongation, 267
desaturation in hepatic and intestinal tissue, 471
desaturation, in NIH-3T3 cells, 163
dietary effects, *See* dietary fatty acids
effect on VLDL secretion, 419
esterification, 1027
free, in paracloacal glands of alligator, 75
hydroperoxides, product identification, 487
incorporation into glycerolipids, 1, 1055
long-chain, and Zellweger's syndrome, 97
long-chain, isolation from sponges, 1011
longer-chain, in human glycosphingolipids, 737
metabolism in hepatocytes, effect of lovastatin, 1087
methyl esters, synthesis, 47, 231, 355
monoenoic, and Zellweger's syndrome, 97
monoenoic, isolated from *Vibrio* phospholipids, 389
oxidation, and diabetes mellitus, 433
peroxidation in hepatocytes, 115
production in piglet, effect of maternal diet, 677
PUFA, *See* polyunsaturated fatty acids
pyrrole dervatives, 161
reaction with tocopheroxyl radicals, kinetics, 753
saturated, synthesis, 889
synthesis from acetate, 97
thio analogues, synthesis, 73
toxicity against tumor cells, 103
trans, metabolism in mouse fibroblasts 3T3-L1, 1069
n-3 FATTY ACID(S)
as inhibitors of 5-lipoxygenase pathway, 321
contents in adipose tissue, 987

contents in fish oils, 313
contents in human placenta phospholipids, 631
dietary, effect on Δ9 desaturase activity, 285
enrichment of, by solid phase extraction, 51
in brain phospholipids 13, 19
maternal dietary, and immune response in piglet, 677
metabolism in turbot cells, 267
of alveolar type II cells, 167
positional distribution in adipose tissue triacylglycerols, 279
n-6 FATTY ACID(S)
as inhibitors of 5-lipoxygenase pathway, 321
contents in adipose tissue, 987
contents in human placenta phospholipids, 631
contents in plasma, and HIV-1 infection, 593
contents in rat tissues, 109
dietary, effect on Δ9 desaturase activity, 285
in brain phospholipids 13, 19
metabolism in turbot cells, 267
of alveolar type II cells, 167
ω3 FATTY ACID(S)
contents in adipose tissue, 987
dietary supplementation, 987
effect on tumor cells, 103
of human placenta phospholipids, 631
FERROUS IONS
and lipid peroxidation, 497
FIBROBLASTS
fatty acid synthesis in, 97
peroxisome-deficient, 97
FILIPIN
effect on sterol analysis, 929
FISH OIL
autoxidation and hydrolysis *in vitro*, 313
dietary, effect on lung surfactant phospholipids, 167
dietary, inhibition of breast carcinoma growth, 827
effect on adipose tissue triacylglycerols, 279
effect on alveolar type II cells, 167
fatty acid composition of, 51, 313
maternal consumption and piglet immune response, 677
lipid composition of, 313
FLAVONE
effect on lipids in bacteria *Rhizobium leguminosarum*, 975
FREE RADICALS
in lipid peroxidation, 497
FUMONISIN B_1
effect on yeast lipids, 397
FURANOID FATTY ESTERS
synthesis, 43, 1027

G

GARLIC EXTRACTS
effect on cholesterol biosynthesis, in hepatocytes, 613
GAS CHROMATOGRAPHY-MASS SPECTROMETRY
of arachidonic acid metabolites, 361
of cholesteryl ester peroxidation products, 331
of glycerolipids, 255
of lipids from paracloacal glands of alligator, 75
of lipoxygenase products, 779
positive ion plasmaspray, 255
GAS-LIQUID CHROMATOGRAPHY OF
arachidonic acid metabolites in rabbit platelets, 361
cholesterol sulfate, 833
cholesteryl ester peroxidation products, 331
Drosophila lipids, 345
fatty acid hydroperoxidation products, 487
fatty acids of alligator developing embryo, 135
fatty acids of brain phospholipids, 13
fatty acids of *Oenothera hookeri* seeds, 1005
fatty acids of seeds, 841
sterols of *Chaetoceros* and *Skeletonema* sp., 465
GC-MS, *See* gas chromatography-mass spectrometry
GEL PERMEATION CHROMATOGRAPHY
for cholinephosphotransferase purification, 89
GENE EXPRESSION
flavone-activated, in *Rhizobium leguminosarum*, 975
in NIH 3T3 cells, 969
GERANYLGERANIOL
effect on *ras*-transformed NIH 3T3 cells, 969
GLUCURONIDASE
release by human platelets, 193
GLUTATHIONE
inhibition of lipid peroxidation, 427
levels in mouse liver, 657
peroxidase and reductase, dietary effects, 657
GLYCEROLIPID(S)
fatty acid incorporation into, 1
of adipose microsomes, dietary modulation, 607
of cultured human fibroblasts, 1
of human brain, 13
of ROC-1 oligodendroglial cells, 67
GLYCODEOXYCHOLATE
effect on red blood cells, 999
GLYCOLIPIDS
of human gastrointestinal tract, 737
GLYCOSAMINOGLYCAN
and lipoprotein lipase activity in myocytes, 55
GLYCOSPHINGOLIPIDS
of human gastrointestinal tract, 737

H

HDL, *See* high density lipoproteins
HEPARIN
release of lipoprotein lipase by, 59
HEPATOCYTES
cholesterol synthesis in, effect of garlic extracts, 613
fatty acid metabolism, effect of lovastatin, 1087
fatty acid oxidation by, 683
LDL and bile acid production in, 709
normal and transformed, fatty acid peroxidation, 115
15-HETE, *See* 15-hydroxyeicosa-5,8,11,13-tetraenoic acid
HEXADECYLPHOSPHOCHOLINE
uptake and antitumor activity, 731
HIGH DENSITY LIPOPROTEINS
microplate method for, 151
effect of dietary lipids on, 7
HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY
chiral phase, separation of diacylglycerols, 29
chiral stationary phase, resolution of diacylglycerols, 251
of bile acid methyl esters, 863
of cholesteryl ester peroxidation products, 331
of *Drosophila* lipids, 345
of hydroxy fatty acids, 325
of 4-hydroxynonenal, 141
of isomeric conjugated fatty acids, 1037
of lipoxygenase products, 321
of malondialdehyde, 115
of phospholipid hydroperoxides, 245
of phospholipids, 13, 19
of plasmalogens, 565
of sterols, 469
of thiobarbituric acid reactive substances, 337
of tocopherol oxidation products, 1015
of triacylglycerols, 667
paired-ion, of phosphatidylinositols, 1033
reverse-phase, of aldehydes, 331
reverse-phase, of brominated fatty acids, 1011
with photodiode array detection, 1037
HIV-1 INFECTION
effect on plasma fatty acids, 593
HMG-CoA REDUCTASE, *See* 3-hydroxy-3-methylglutaryl coenzyme A reductase
HPLC, *See* high-performance liquid chromatography

HUMAN
brain lipids, 13
fatty acid binding protein, 383
leukocytes, leukotriene synthesis, 321
lipoproteins, 1
plasma fatty acids, 525
serum lipids, 1
HUMAN SERUM BASIC PROTEINS
effect on fatty acid incorporation into human fibroblasts, 1
HYDROPEROXIDE(S)
age-related accumulation in brain and liver, 789
effect of tocopherols on, 747
metabolizing system, effect of dietary fat, 657
of fatty acids, product identification, 487
of phospholipids, 497
of soybean phospholipids, 245
5-HYDROPEROXYEICOSATETRAENOIC ACID
synthesis in human leukocytes, 321
15-HYDROPEROXYEICOSATETRAENOIC ACID
effect of human parotid saliva on, 121
13(*S*)-HYDROPEROXY-9(*Z*),11(*E*)-OCTADECADIENOIC ACID
conversion to hydroxy fatty acids, 325
transformation by alkali, product identification, 487
25-HYDROXYCHOLESTETOL
analysis by electron microscopy, 923, 929
5-HYDROXYEICOSATETRAENOIC ACID
synthesis in human leukocytes, 321
15-HYDROXYEICOSATETRAENOIC ACID
formation by human saliva, 121
synthesis in hamster, 1131
HYDROXY FATTY ACIDS
accumulation in yeast, 397
formation by human leukocytes, 321
in glycosphingolipids of human gastrointestinal tract, 737
in human saliva, 121
isolation from brown algae, 783
production in salmon, 819
quantification in platelets, 361
synthesis in hamster macrophages, 1131
synthesis of, 325
2-HYDROXYHEXADECANOIC ACID
accumulation in yeast, 397
3-HYDROXY-3-METHYLGLUTARYL COENZYME A REDUCTASE
activity in enterocytes, effect of diet, 549
activity in hepatocytes, 613
inhibitors of, 569
4-HYDROXYNONENAL
contents in liver, 141
determination by HPLC, 141
iron-induced in tissues, 261
13(*S*)-HYDROXY-6(*Z*),9(*Z*),11(*E*),15(*Z*)OCTADECATETRAENOIC ACID
isolation from brown algae, 783
HYPERCHOLESTEROLEMIA
and cholesterol sulfate content in plasma, 833
diet induced,effect on cholesterol deposition, 109
effect of β-cyclodextrin on, in hamster and rat, 181
HYPERSENSITIVITY
effect of tridihomo-γ-linolenoyl-glycerol on, 873
HYPERTRIGLYCERIDEMIA
in magnesium deficiency, effect on lipoproteins, 573
HYPERTENSION
and hypercholesterolemia, in rat, 109
HYPOCHOLESTEROLEMIC AGENTS
β-cyclodextrin, effects in hamster and rat, 181
lifibrol, effect on lipid homeostasis and acetate metabolism, 1079
simvastatin, effect on desaturase activity, 63
γ-tocotrienol, effects in rat, 1113
HYPOCHLOROUS ACID
oxidation of urofuran acid by, 35
HYPOLIPIDEMIC ACTIVITY OF
6-alkoxycarbonyl-3-aryl-1,3,5-triazabicyclo[3.1.0]hexane-2,4-diones, 223
2-alkoxycarbonyl-5-aryl-1,3,5-triazine-4,6(1H,5H)-diones, 223
β-cyclodextrin, effect in hamster and rat, 181
lifibrol, effect on lipid homeostasis and acetate metabolism, 1079
HYPOTHYROIDISM
propylthiouracil-induced, in rat, 1075
HYPOTRIGLYCERIDEMIA
effect of EPA on, and fatty acid oxidation, 683

I

INFRARED SPECTROSCOPY
of fatty thioacids, 73
INOSITOL 1,4,5-TRISPHOSPHATE
accumulation in brain of lithium-treated rats, 577
INSULIN
effect on lipids of adipose microsomes, 607
IRON
effect on lipid peroxidation assay, 337
induced lipid peroxidation, in liposomes, 497
non-heme, in lipoxygenase from rabbit reticulocyte, 241
ISOPENTENYL DIPHOSPHATE ISOMERASE
activity in *Saccharomyces cerevisiae*, 903
ISOPRENE EXCRETION
effect of cholesterol biosynthesis regulation on, in men, 705

L

LAMELLAR BODIES
cholesterol and phosphatidylcholine turnover in, 173
LANOSTEROL
demethylase, mutations in yeast, 963
LCAT, *See* lecithin:cholesterol acyltransferase
LECITHIN:CHOLESTEROL ACYLTRANSFERASE
activity in rat plasma, 109
LEUKEMIA
effect of 1-β-D-arabinofuranosylcytosine conjugates on, 1021
effect of docosapentaenoic acid on, 103
LEUKOTRIENE(S)
production, inhibition by fatty acids, 321
synthesis in platelets and macrophages, 1131
LINOLEIC ACID
clearance in rat plasma, 697
contents in alligator developing embryo, 135
contents in seeds, effect of plastid mutations, 1005
deficiency, effect on desaturase activity, 517
desaturation in rat microsomal membranes, 457
effect on epidermal cells, 407
incorporation into yeast triglycerides, 1055
metabolism in mouse liver, 285
metabolism in turbot cells, 267
oxidation, 331
α-LINOLENIC ACID
contents in alligator developing embryo, 135
contents in seeds, effect of plastid mutations, 1005
dietary supplementation of,533, 987
metabolism in NIH-3T3 cells, 163
metabolism in turbot cells, 267
γ-LINOLENIC ACID
contents in seeds, and plastid mutations, 1005
contents in seeds of *Anemone* species, 841
dietary, effect on desaturase activity, 285
LIPASE(S)
of *Rhizomucor miehei*, conformation, 721
of *Rhizopus delemar*, activity, 81
overexpression in *Escherichia coli*, 81
pancreatic, hydrolysis of triacylglycerols, 313
triacylglycerol, purification and properties, 377
LIPID
accumulation in mouse fibroblasts 3T3-L1, 1069
extraction, effect of lyophilization, 937
homeostasis, in rats, 1079

methanolysis, microwave-mediated, 953
solid phase extraction, 945
LIPID OXIDATION
by silver nitrate, 1015
effect of garlic, 475
effect of α-tocopherol, 201
in hepatocytes, effect of lovastatin, 1087
products, analysis of, 331, 1015
LIPID PEROXIDATION
assay, by conjugated diene formation, 857
assay, by thiobarbituric acid reactivity, 337
by glutathione, effect of vitamin E and thiols, 427
effect of dietary fat on, in mice, 657
effect of dietary fatty acids on, 651
effect of tocopherol on, 115, 210
effect on breast carcinoma growth, 827
effect on phospholipase A_2 activation, 505
induced by iron and ascorbate, in liposomes, 497
in hepatocytes, normal and transformed, 115
in tissues, iron-induced, 115, 261
of cholesteryl esters, product identification, 331
products, determination, 141
LIPIDS OF
alligator developing embryo, 135
bacteria *Rhizobium leguminosarum*, and gene expression, 975
Drosophila, dietary effects, 345
hamster tissues, 981
nematode *Caenorhabditis elegans*, 837
paracloacal glands of alligator, 75
plasma and liver, and atherosclerosis, 599
rabbit platelets, 361
rat erythrocytes, 291
rat liver, in linoleic acid deficiency, 517
rat plasma, 109
rat tissues, effect of dietary fatty acids, 651
rat tissues, effect of hypolipidemic drugs, 223
Vibrio, effect of growth conditions, 389
LIPOGENESIS
in rat, and hypotriglyceridemia, 683
LIPOPHILICITY
of crown ethers, 847
LIPOPROTEIN LIPASE
of cardiac myocytes, 59
LIPOPROTEINS
and atherosclerosis, in mice, 599
determination of choline phospholipids in, 949
effect of diet on, 533, 573
effect of garlic on, 475
effect of hypolipidemic agents on, in rodents, 223, 1079, 1113
metabolic study of, in rat, 691
of hamster, effect of β-cyclodextrin, 181
of hamster, strain differentiation, 305
of hypertriglyceridemic rat, in magnesium deficiency, 573
of perfused liver, 419
LIPOSOMES
and phospholipase A_2 activity, 371
as model for lipid peroxidation, 497, 857
effects of docosahexaenoic acid on, 103
interaction with phospholipase A_2, 505
permeability of, effect of crown ethers, 847
LIPOXIN A_4
assay by ELISA in asthmatic patients, 1047
LIPOXYGENASE
from soybean, formation of octadecadienoate dimers, 779
metabolites, in salmon, 819
pathway, inhibitors of, 321
purification, from reticulocyte lysate, 241
treatment, for hydroperoxide determination, 245
LITHIUM
effect on brain lipids, 577
LOVASTATIN
effect on cholesterol biosynthesis and isoprene excretion, in men, 705
LOW DENSITY LIPOPROTEINS
effect of dietary lipids on, 7
metabolic study of, in rat, 691
of hamster plasma, 305
of rabbit hepatocytes, 709
LYSOPHOSPHATIDIC ACID
acylation by microsomal acyltransferase, 299
LYSOPHOSPHATIDYLCHOLINE
acylation by microsomal acyltransferase, 299
contents in *Drosophila*, 23
contents in mammalian red blood cells, 999
LYSOPHOSPHATIDYLETHANOLAMINE
acylation by microsomal acyltransferase, 299
contents in *Drosophila*, 23
LYSOPHOSPHATIDYLINOSITOL
acylation by microsomal acyltransferase, 299
contents in *Drosophila*, 23
LYSOPHOSPHATIDYLSERINE
acylation by microsomal acyltransferase, 299
LYSO PLATELET ACTIVATING FACTOR
analogues, antitumor activity, 511

M

MALONDIALDEHYDE
excretion, effect of diabetes, 663
excretion, effect of dietary PUFA, 757
formation and lipid peroxidation, 337
synthesis and diabetes mellitus, in rat, 433
MALONYL COENZYME A
levels in hepatocytes, effect of lovastatin, 1087
MAMMARY GLANDS
effect of sphingosine, 867
MAMMARY TUMOR
in rat, effect of diet, 449
MASS SPECTROMETRY
of allylic nitrites, 125
of human milk triacylglycerols, 217
of hydroperoxy fatty acids, 487
of isomeric unsaturated fatty acids, 561
of methyl 5,11,14,17-eicosatetraenoate-8,8,9,9-d_4, 47
thermospray, for 4-hydroxynonenal, 261
triacylglycerols, 207
MEMBRANE
fluidity, effect of ether lipids, 189
hemolysis by bile salts, 999
microsomal, fatty acid composition, 291
microsomal, fluidity and desaturase activity, 457
of yolk sac, cholesterol esterification, 621
phospholipids, effect on adenylate cyclase activity, 727
MERTHIOLATE
inhibition of microsomal acyltransferase, 299
METHANOLYSIS
microwave-mediated, 953
METHYL 5,11,14,17-EICOSATETRAENOATE-8,8,9,9-d_4
synthesis, 47
METHYL 11,14,17-EICOSATRIENOATE-3,3,4,4,8,8,9,9-d_8
synthesis, 231
METHYL ESTERS
of fatty acids, synthesis, 355
METHYL LINOLEATE
alkyl and alkenyl radicals, 210
nitro derivatives, identification by HPLC and MS, 125
METHYL LINOLENATE
nitro derivatives, identification by HPLC and MS, 125
N-METHYLPHOSPHATIDYLETHANOLAMINE
contents in *Rhizobium leguminosarum*, and gene expression, 975
MICROSOMES
of rat liver, cholinephosphotransferase isloation, 89
MILK LIPIDS
human, 157
human, triacylglycerol structure, 637

MITOCHONDRIA
fatty acid oxidation in, and hypotriglyceridemia, 683
MONOACYLGLYCEROL
stereospecific acyltransferase, from rat intestine, 29
MS, *See* mass spectrometry
MYELIN
fatty acids, and hypothyroidism, 1075
maturation, and fatty acid composition, 627
MYRISTIC ACID
clearance in rat plasma, 697
effect on *ras*-transformed NIH 3T3 cells, 969

N

NEGATIVE ION TANDEM MASS SPECTROMETRY
of human milk triacylglycerols, 217
NERVONIC ACID
as indicator of myelin maturation, 627
NEUTRAL LIPIDS
of fungi *Tilletia controversa* and *Tilletia tritici*, 1041
NEUTROPHIL
interaction with platelets, and lipoxin A_4 formation, 1047
NMR, *See* nuclear magnetic resonance
NOREPINEPHRINE
effect on adipose lipids, 607
NUCLEAR MAGNETIC RESONANCE
^{13}C, detection of eicosapentaenoic acid, 273
^{13}C, of ethyl 5,8,11,14-eicosatetraenoate, 853
^{13}C, of ethyl 8,11,14-eicosatrienoate, 853
^{13}C, of methyl 5,11,14,17-eicosatetraenoate-8,8,9,9-d_4, 47
^{1}H, ^{13}C of furanoid fatty esters, 43
^{1}H, ^{13}C, of trisubstituted pyrrole fatty esters, 161
^{1}H, ^{13}C, of urofuran acid oxidation products, 35

O

OCTADECADIENOATE DIMERS
formation by soybean lipoxygenases, 779
OLEIC ACID
biosynthesis in rat tissue, effect of high-fat diet, 441
effect on VLDL secretion, by perfused liver, 419
incorporation by human fibroblasts, 1
incorporation into yeast triglycerides, 1055
OSMIUM
effect on sterol analysis, 929
OXIDATION OF
ascorbic acid, 497
cholesterol, *in vitro*, 917
fatty acids in rat liver, effect of EPA, 683
fish oils, 313
α-tocopherol, 1015
urofuran acid by hypochlorous acid, 35
OXIDOSQUALENE CYCLASE
from *Saccharomyces cerevisiae*, 903
OXYCHOLESTEROL
as cholesteryl ester peroxidation product, 331
OXYGENATED FATTY ACID ESTERS
synthesis, 1027
OXYSTEROLS
identification by TLC and GC–MS, 331

P

PAF, *See* platelet activating factor
PAF-ACETHER:ACETYLHYDROLASE
from human platelets, 193
PAF-ANTAGONISTS
inhibition of platelet aggregation, 1119
PALMITIC ACID
contents in seeds, effect of plastid mutations, 1005
effect on *ras*-transformed NIH 3T3 cells, 969
incorporation into yeast triglycerides, 1055
PANCREATIC LIPASE
hydrolysis of triacylglycerols, 313
PANCREATIC PHOPSPHOLIPASE A_2
activity, effect of substrate aggregation, 371
PAROTID SALIVA
effect on 15-hydroperoxyeicosatetraenoic acid, 121
2,2,5,7,8-PENTAMETHYL-6-CHROMANOL
oxidation products of, 1015
PERIPHERAL NERVE SYSTEM
γ-tocopherol contents, in dog, 1095, 1101, 1107
PEROXIDATION, *See* lipid peroxidation
PEROXISOME
deficiency, 97
proliferation, induced by fatty acid analogues, 795
PHORBOL ESTER
activity on epidermal cells, modulation by fatty acids, 407
as protein kinase C activator in fibroblasts, 479
PHOSPHATIDATE PHOSPHOHYDROLASE
activity in rat liver, and hypotriglyceridemia, 683
PHOSPHATIDIC ACID
contents in *Drosophila*, 23
PHOSPHATIDYLCHOLINE(S)
as substrate for pancreatic phospholipase A_2, 371
bilayer properties, structural effects, 365
biosynthesis, in rat liver, 89
biosynthesis, modulation by fatty acid analogues, 795
contents in *Drosophila*, 23
contents in human brain white matter, 13
contents in mammalian red blood cells, 999
contents in NIH-3T3 cells, 163
contents in *Rhizobium leguminosarum*, and gene expression, 975
contents in ROC-1 oligodendroglial cells, 67
determination by enzymatic method, 949
dinitrobenzoyl derivatives, 13
effect on adenylate cyclase activity, 727
fatty acids, of salmon liver, 819
hydroperoxides, accumulation in diploid cells, 775
molecular species, determination in soybean, 245
of human milk, fatty acids composition, 157
transition temperature, 365
turnover in lung surfactant, 173
PHOSPHATIDYLETHANOL
formation in cultured fibroblasts, 479
PHOSPHATIDYLETHANOLAMINE(S)
biosynthesis, modulation by fatty acid analogues, 795
contents in *Drosophila*, 23
contents in human brain white matter, 13
contents in NIH-3T3 cells, 163
contents in *Rhizobium leguminosarum*, and gene expression, 975
contents in ROC-1 oligodendroglial cells, 67
dinitrobenzoyl derivatives of, 13
fatty acids, of salmon liver, 819
molecular species, determination in soybean, 245
human milk, fatty acids composition, 157
PHOSPHATIDYLGLYCEROL
contents in *Rhizobium leguminosarum*, and gene expression, 975
PHOSPHATIDYLINOSITOL
contents in brain lipids, effect of lithium, 577
contents in *Drosophila*, 23
contents in human brain white matter, 13
contents in mammalian red blood cells, 999
contents in ROC-1 oligodendroglial cells, 67
fatty acids, of salmon liver, 819
fatty acids, of soybean, 255, 1033
molecular species, separation by HPLC, 1033
PHOSPHATIDYLSERINE
contents in *Drosophila*, 23
contents in mammalian red blood cells, 999
contents in NIH-3T3 cells, 163
contents in ROC-1 oligodendroglial cells, 67
fatty acids, of salmon liver, 819

PHOSPHOLIPASE A_2
activity, effect of substrate peroxidation, 505
activity in *Drosophila*, 23
pancreatic, effect of substrate aggregation, 371
PHOSPHOLIPASE C
effect on phospholipid metabolism in fibroblasts, 479
PHOSPHOLIPASE D
activity in cultured fibroblasts, 479
PHOSPHOLIPID(S)
1-alkylamido analogues of, 55
O-alkyl diol derivatives of, synthesis, 351
brominated fatty acid, from sponge, 763
containing long-chain fatty acids, 1011
contents in alligator developing embryo, 135
contents in mammalian red blood cells, 999
dietary, effect on lipoproteins, 7
fatty acids, 13, 19, 63, 163
fatty acids, effect of high-fat diet, 441
fatty acids of adipose tissue, 987
fatty acids of alveolar type II cells, 167
fatty acids of erythrocytes, 291
fatty acids of erythrocytes, and cerebral palsy, 957, 959
fatty acids of human placenta, 631
fatty acids of liver microsomes, 291
fatty acids of NIH-3T3 cells, 163
fatty acids of piglet fed formula, 645
fatty acids of salmon, 819
fatty acids of sponges, 767
fatty acids of *Vibrio*, 389
membrane permeability, effect of crown ethers, 847
metabolism in cultured fibroblasts, 479
metabolism in *Drosophila*, effect of phototransduction, 23
molecular species, determination in soybean, 245
of *Drosophila*, effect of phototransduction, 23
of hamster tissues, 981
of human milk, 157
of lung tissue, in rat, 167
of microsomal membranes, dietary effects on, 457
of nematode *Caenorhabditis elegans*, 837
of NIH-3T3 cells, 163
of ROC-1 oligodendroglial cells, 67
solid phase extraction, 945
PHOTOTRANSDUCTION
effect on *Drosophila* phospholipids, 23
PLASMALOGEN(S)
acidic hydrolysis, HPLC analysis, 565
contents in *Drosophila*, 23
contents in fish brain, 19
contents in human brain white matter, 13
contents in ROC-1 oligodendroglial cells, 67
fatty acid composition, 13, 19
PLASMA MEMBRANE
fatty acids, and temperature-induced responses, 743
PLASTOME MUTATIONS
of seeds, and fatty acid composition, 1005
PLATELET ACTIVATING FACTOR
analogues, antitumor activity, 511
analogues, effect on murine melanoma, 403
analogues, in blood, 415
effect on platelets, 193, 1119
metabolism in platelets, 193
receptor in platelets, 1119
PLATELET(S)
activation by cardiolipin, 1119
aggregation, effect of γ-tocotrienol, 1113
arachidonic acid metabolism in, 1131
effect of α-linolenic acid on, 811
human, effect of paf-acether on, 193
interaction with neutrophils, and lipoxin A_4 formation, 1047
piglet, effect of formula fatty acids, 645
rabbit, arachidonic acid metabolism, 361
POLYUNSATURATED FATTY ACID(S)
as inhibitors of 5-lipoxygenase pathway, 321
cholesteryl esters of, peroxidation, 331
composition in brain glycerophospholipids, 13, 19
contents in fish oils, 313
deficiency, effect on desaturase activity, 517
desaturation/elongation, in turbot cells, 267
dietary, and urinary malondialdehyde excretion, 757
dietary, effect on piglet platelets, 645
dietary, effect on rat alveolar type II cells, 167
effect on lipid metabolism, in effect on mammary tumor, 449
effect on tumor cells, 103
enrichment by solid phase extraction, 51
isomer identification, 561
metabolism in adipose tissue, 279
of adipose tissue, 987
of brain alkenylacyl glycerophosphoethanolamines, 19
of human milk, 157
of microsomal phospholipids, and obesity, 63
of ROC-1 oligodendroglial cells, 67
of *Vibrio* phospholipids, 389
production in piglet, effect of maternal diet, 677
synthesis, 1027
PROLIPASE
of *Rhizopus delemar*, 81
overexpression in *Escherichia coli*, 81
PROPYLTHIOURACIL
induction of hypothyroidism in rat by, 1075
PROSTAGLANDIN
production in epidermal cells, 407
synthesis, and diabetes mellitus, 433
synthesis in hamster platelets and macrophages, 1131
PROTEIN
acylation, pitfalls of, 235
calcium binding, effect of bile salts, 883
fatty acid binding, purification, 383
of human serum, effect on fatty acid incorporation, 1
phosphorylation, modulation by sphingosine, 867
thiols, effect on lipid peroxidation, 427
transferase, in *ras*-transformed NIH 3T3 cells, 969
PROTEIN KINASE C
effect on phospholipase D activity in fibroblasts, 479
in epidermal cells, effect of fatty acids, 407
of mammary gland, modulation by sphingosine, 867
PUFA, *See* polyunsaturated fatty acids

R

RADIOIMMUNOASSAY
for PAF, specificity of, 415
RECEPTOR
PAF-specific, in platelets, 1119
vertebrate visual, effect of diet on, 337
RED BLOOD CELLS
hemolysis by bile salts, 999
of premature infants, fatty acids of, 627
RETINITIS PIGMENTOSA
effect on apolipoproteins, 995

S

SAPONIN
effect on sterol analysis, 929
SATURATED FATTY ACIDS
branched, physical properties, 899
synthesis, 889
SEED OIL
fatty acids, effect of plastid mutations, 1005
SEROTONIN
release by human platelets, 193
SERUM
choline phospholipids, 949
cholesterol, effect of hypolipidemic drugs in rodents, 223
cholesterol, microplate assay for, 151

lipoproteins, dietary effects on, 7
proteins, effect on fatty acid incorporation, 1
SIMVASTATIN
effect on arachidonic acid biosynthesis, 63
effect on desaturase activity, and obesity, 63
SMOOTH MUSCLE CELLS
lipid biosynthesis in, effect of atherosclerosis, 589
SODIUM PYRUVATE
effect on protein acylation, 235
SOLID PHASE EXTRACTION
of n-3 PUFA, 51
SPHINGOMYELIN
contents in mammalian red blood cells, 999
contents in NIH-3T3 cells, 163
contents in ROC-1 oligodendroglial cells, 67
of human milk, fatty acids composition, 157
of red blood cells in premature infants, 627
SPONGE
brominated fatty acids, 763
brominated long-chain fatty acids, 1011
phospholipids and steryl esters, 767
SQUALENE
dietary, radioprotection of, in mice, 555
inhibitory effect on cell growth, 969
metabolism in *Saccharomyces cerevisiae*, 903
STEARIC ACID
clearance in rat plasma, 697
dietary effects on serum lipids, in rat, 539
uptake into jejunal brush border membrane, 1063
STEARIDONIC ACID
as inhibitor of 5-lipoxygenase pathway, 321
metabolism in NIH-3T3 cells, 163
STEROL(S)
analysis by electron microscopy, 923, 929
biosynthesis, effect of hypolipidemic agents, in rat, 1079
biosynthesis in yeast, 907, 963
contents in hamster, effect of β-cyclodextrin, 181
of cactus pollen, 469
of oyster *Crassostrea gigas*, 937
of phytoplankton, *Chaetoceros* and *Skeletonema* sp., 465
of sponges, 767
structure identification, 771
SURFACTANT
alveolar, characterization of subtypes, 715
cholesterol and phosphatidylcholine turnover, 173
fatty acids, 715
phospholipids, 167
SYNAPTOSOMES
of hypothyroid rat, 1075
SYNTHESIS OF
1-alkylamido analogues of phospholipids, 55
O-alkyl diol *O*-, *S*- and *Se*-phosphoroamidates of DL-α-tocopherol, 351
1-β-D-arabinofuranosylcytosine conjugates, 1021
branched saturated fatty acids, 889
cholesterol, inhibition by compactin-related compounds, 569
cyclopropene fatty esters, 1125
deuterium-labeled fatty acids, 853
ether lipids, 1021
fatty acid methyl esters, selectivity of, 355
fatty thioacids, 73
furanoid fatty esters, 43, 1027
methyl 5,11,14,17-eicosatetraenoate-8,8,9,9-d_4, 47
methyl 11,14,17-eicosatrienoate-3,3,4,4,8,8,9,9-d_8, 231
oxygenated fatty acids, 1027
phenyl substituted furanoid fatty esters, 43
phosphatidylcholine, modulation by fatty acid analogues, 795
thioether lipids, 1021
trisubstituted C_{18} pyrrole fatty esters, 161

T

TAURODEOXYCHOLATE
effect on red blood cells, 999
TEMPERATURE
effect on lipids during embryonic development, 135
effect on plasma membrane, 743
low, for chiral stationary phase HPLC, 251
transition, of phosphatidylcholine bilayers, 365
Δ^9-TETRAHYDROCANNABINOL
inhibition of microsomal acyltransferase, 299
THIN-LAYER CHROMATOGRAPHY OF
aldehydes, 331
fatty acids, 97
fatty thioacids, 73
furanoid fatty esters, 43
glycosphingolipids, acidic and neutral, 737
hydroxy fatty acids, 325
neutral lipids, 75
oxidation products of urofuran acid, 35
phospholipids, 13, 23
THIOBARBITURIC ACID
reactivity in human urine, and lipid peroxidation, 337
reactivity in microsomes and vitamin E deficiency, 427
reactivity in rat heart, effect of dietary fatty acids, 651
substances, excretion, effect of dietary PUFA, 757
THIOETHER LIPIDS
antitumor activity, 1021
synthesis, 1021
THROMBOGENESIS
effect of α-linolenic acid, 811
TIMNODONIC ACID
as inhibitor of 5-lipoxygenase pathway, 321
TLC, *See* thin-layer chromatography
TOCOPHEROL(S)
and oxidative stress, antioxidant activity, 261, 1113
consumption and fatty acid peroxidation, 115
contents in dog tissues in vitamin E deficiency, 1095, 1101, 1107
contents in rat tissues, 789
derivatives, synthesis, 351
effect on lipid hydroperoxide accumulation, in diploid cells, 775
effect on lipid peroxidation, 115
hypocholesterolemic activity, 1113
oxidation products, 1015
prooxidant effect, kinetic study, 747
reaction with alkyl and alkylperoxyl radicals, 201
TOCOPHEROXYL RADICALS
reaction with fatty acids, kinetics, 753
γ-TOCOTRIENOL
antioxidant and hypocholesterolemic activity, 1113
TRIACYLGLYCEROL(S)
analysis by HPLC, 667
analysis by negative ion chemical ionization tandem MS, 207
dietary, effect on human serum lipoproteins, 7
fatty acid composition, dietary effects, 539
fatty acid composition, from adipose tissue, 987
fatty acid composition, in NIH-3T3 cells, 163
fatty acid composition, of alveolar type II cells, 167
fatty acid incorporation into, 1, 419
fatty acids, and Zellweger's syndrome, 97
lipase, purification and properties, 377
of fungi *Tilletia controversa* and *Tilletia tritici*, 1041
of hamster lipoproteins, 305
of human milk, 217
of human milk and colostrum, 637
of mouse plasma, 285
of rat VLDL, effect of lovastatin, 1087
partial deacylation by allyl magnesium bromide, 147
polymers, hydrolysis by pancreatic lipase, 313
positional distribution in adipose tissue, 279
regiospecific analysis, 147
synthesis in cultured human fibroblasts, 1
synthesis in yeast *Apiotrichum curvatum*, substrate specificity, 1055
TRIACYLGLYCEROL SYNTHETASE
from rat intestine, activity and specificity of, 29
TRIDIHOMO-γ-LINOLENOYL-GLYCEROL
effect on hypersensitivity, 873

TRIGLYCERIDE CONTENTS IN
alligator developing embryo, 135
Drosophila lipids, 345
human milk, fatty acid composition, 157
rat lipoproteins, and magnesium deficiency, 573
rat plasma, effect of lifibrol on, 1079
serum, effect of hypolipidemic drug in rodents, 223
serum, microplate method, 151
yeast *Apiotrichum curvatum*, 1055
8,9,13-TRIHYDROXYDOCOSANOIC ACID
accumulation in yeast, 397
TUMOR, *See also* cancer
human breast, implanted in mice, effect of fish oil, 827
murine melanoma, effect of ether lipids on, 403
promotion, effect of diet, 449

U

UBIQUINONE
subcellular distribution, in rat tissues, 803
UNSATURATED FATTY ACIDS
isomer identification, 561
UROFURAN ACID
oxidation products, 35

V

VERY LOW DENSITY LIPOPROTEINS
contents in human serum, dietary effects on, 7
effect of retinitis pigmentosa on, 995
production by rabbit hepatocytes, 709
secretion by perfused liver, 419
secretion by rats fed lovastatin, 1087
VESICLE(S), *See also* liposomes
interaction with phospholipase A_2, 505
of brush border membrane, lipid transport, 1063
permeability, effect of docosahexaenoic acid, 103
VIMENTIN
acylation, effect of pyruvate, 235
VITAMIN A
effect on *Drosophila* lipids, 345
VITAMIN E, *See also* tocopherol(s)
antioxidant activity, 747, 753
deficiency, effect on lipid peroxidation, 427
deficiency, γ-tocopherol contents in dog tissues, 1095, 1101, 1107
effect of dietary fatty acids on, 651
oxidation, 1015
VLDL, *See* very low density lipoproteins

W

WAX ESTERS
from paracloacal glands of alligator, 75

Z

ZINC DEFICIENCY
effect on red cell fatty acids, 265